

# JVC

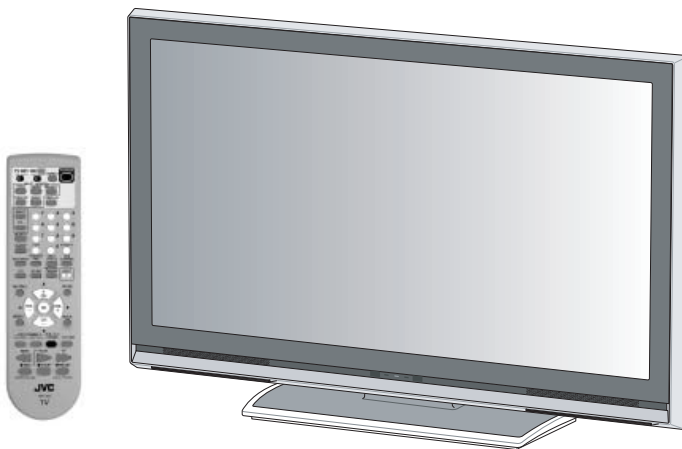
## SERVICE MANUAL

LCD PANEL TELEVISION

**LT-46FH97<sub>IS</sub>,**  
**LT-46FN97<sub>IS</sub>**

BASIC CHASSIS

FL4



*I'Art*<sup>TM</sup>  
PALETTE

**GENESSA**

**HDMI**<sup>TM</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**i HDTV**

**DCR** **DOLBY**  
DIGITAL

**MaxxBass**<sup>®</sup>

*Full HD*

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# SPECIFICATION

Items		Contents
Dimensions ( W × H × D )		112.6 cm × 77.5 cm × 34.1 cm (44-3/8" × 30-5/8" × 13-1/2") [Included stand] 112.6 cm × 72.2 cm × 12.3 cm (44-3/8" × 28-1/2" × 4-7/8") [Included stand]
Mass		38.0 kg (82.5 lbs) [Included stand] 31.5 kg (68.2 lbs) [TV only]
Power Input		AC120 V , 60 Hz
Power Consumption		286 W (Max)
TV RF System (Analog / Digital)	Analog Digital	CCIR (M) ATSC terrestrial / Digital cable
Color System (Analog)		NTSC
Stereo System (Analog)		BTSC (Multi Channel Sound)
Teletext System (Analog)		Closed caption (T1-T4 / CC1-CC4)
TV Receiving Channels and Frequency (Analog)	VHF Low VHF High UHF CATV	02 ch - 06 ch : 54 MHz - 88 MHz 07 ch - 13 ch : 174 MHz - 216 MHz 14 ch - 69 ch : 470 MHz - 806 MHz 54 MHz - 804 MHz Low Band : 02 - 06 High Band : 07 - 13 Mid Band : 14 - 22 Super Band : 23 - 36 Hyper Band : 37 - 64 Ultra Band : 65 - 94, 100 - 135 Sub Mid Band : 01, 96 - 99
TV / CATV Total Channel		191 Channels
Intermediate Frequency (Analog)	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5 MHz)
Color Sub Carrier Frequency (Analog)		3.58 MHz
LCD panel		46V-inch wide aspect (16:9)
Screen Size		Diagonal : 116.9 cm (H:101.9 cm × V:57.3 cm)
Display Pixels		Horizontal : 1920 dots × Vertical : 1080 dots (W-UXGA)
Audio Power Output		10 W + 10 W
Speaker		4 cm × 16 cm (twin Oblique type × 2)
Antenna Terminal (VHF/UHF, ATSC / DIGITAL CABLE IN)		F-type connector, 75Ω unbalanced, coaxial × 1
Video / Audio input [INPUT-1/2/3]	Component Video [INPUT-1] 1125i / 750p 525p / 525i S-Video [INPUT-1/2] Video Audio	RCA pin jack × 3 Y : 1 V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1 V (p-p), Positive (Negative sync provided), 75 Ω Cb/Cr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin × 2 Y: 1 V (p-p), Positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1 V (p-p), Positive (Negative sync provided), 75 Ω, RCA pin jack × 3 500 mV (rms), High impedance, RCA pin jack × 6
Digital input [DIGITAL-IN 1/2]	Video Audio	HDMI 2-row 19pin connector × 2 (Digital-input terminal is not compatible with picture signals of personal computer) Digital: HDMI 2-row 19pin connector × 2 Analog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2
PC (RGB) Input		D-sub 3-row 15pin × 1, R/G/B : 0.7V (p-p), 75Ω HD / VD : 1V (p-p) to 5V (p-p), high impedance < Available signal > VGA : 640 pixels × 480 pixels (Horizontal : 31.5kHz / Vertical : 60Hz) XGA : 1024 pixels × 768 pixels (Horizontal : 48.4kHz / Vertical : 60Hz)
Monitor / Recording Output	S-Video Video Audio	Mini-DIN 4pin × 1, Y: 1 V (p-p), 75 Ω, C: 0.286 V(p-p) (burst signal), 75 Ω 1 V (p-p), 75 Ω, RCA pin jack × 1 250 mV(rms) (-10 dBs), Fs-18 dB low impedance, RCA pin jack × 2
Audio output		250 mV (rms), Low impedance, RCA pin jack × 2
iLink Input/Output		TS In/Out (4-pin, S400) × 2, IEEE1394 compliant DTCP digital copy protection compatible
Digital Audio Optical Output		Digital SPDIF × 1
Headphone		3.5 mm stereo mini jack × 1
Remote Control Unit		RM-C18G (AA/R6 / UM-3 battery × 2)

Design & specifications are subject to change without notice.



# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\equiv$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (6) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

##### a) Dielectric Strength Test

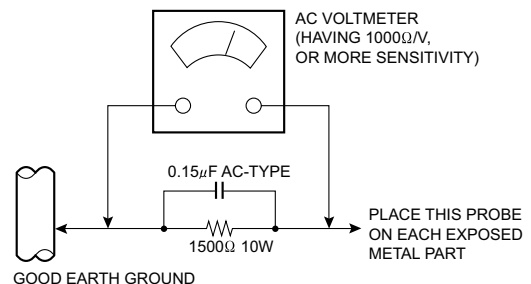
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. (. . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

##### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

##### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$  per volt or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

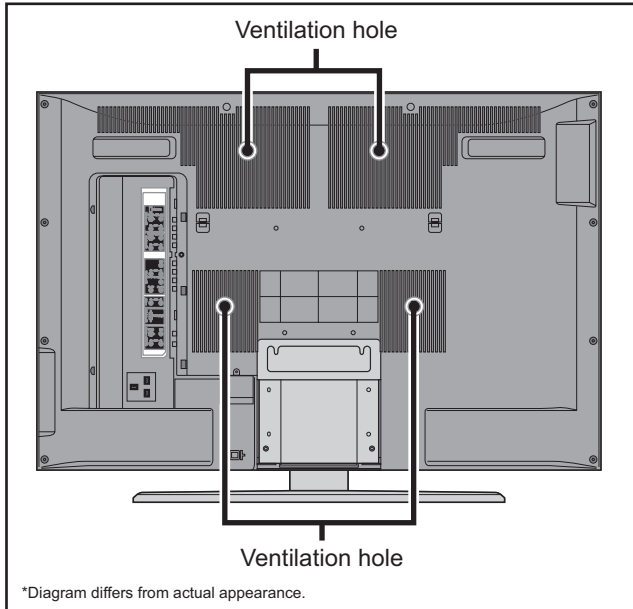




## 1.2 INSTALLATION

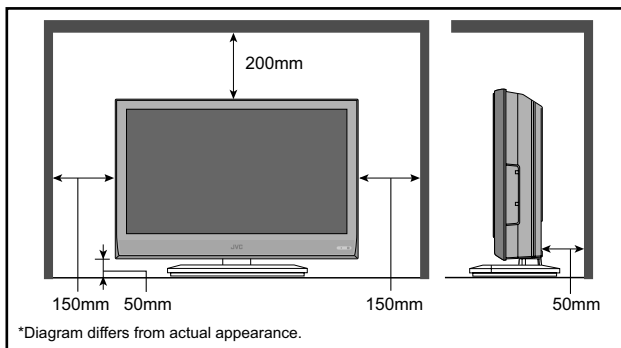
### 1.2.1 HEAT DISSIPATION

If the heat dissipation vent behind this unit is blocked, cooling efficiency may deteriorate and temperature inside the unit will rise. The temperature sensor that protects the unit will be activated when internal temperature exceeds the pre-determined level and power will be turned off automatically. Therefore, please make sure pay attention not to block the heat dissipation vent as well as the ventilation outlet behind the unit and ensure that there is room for ventilation around it.



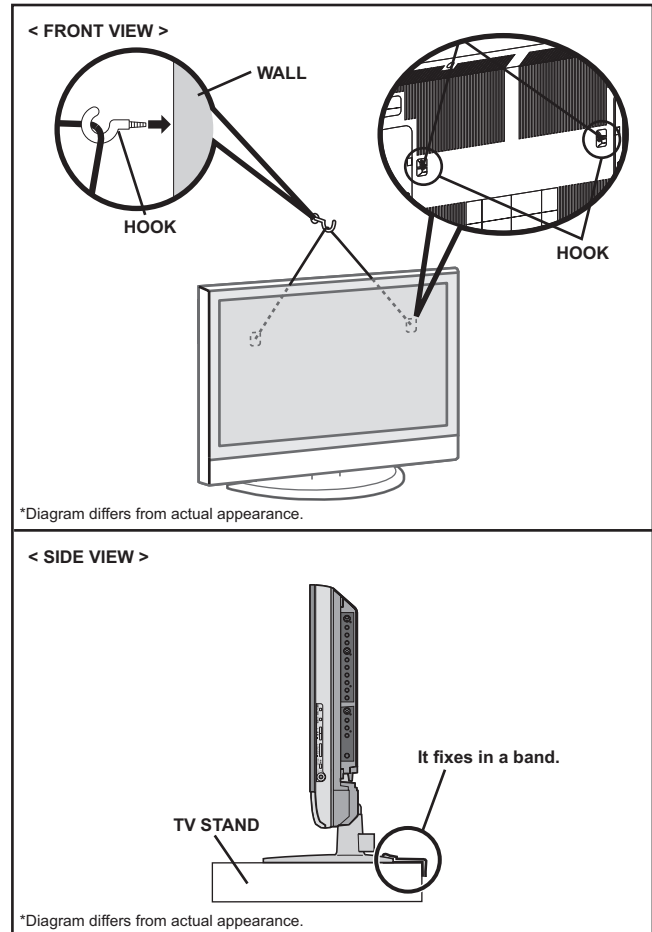
### 1.2.2 INSTALLATION REQUIREMENTS

Ensure that the minimal distance is maintained, as specified below, between the unit with and the surrounding walls, as well as the floor etc. Install the unit on stable flooring or stands. Take precautionary measures to prevent the unit from tipping in order to protect against accidents and earthquakes.



### 1.2.3 INSTALLATION REQUIREMENTS

To ensure safety in an emergency such as an earthquake, and to prevent accidents, ensure that measures are taken to prevent the TV dropping or falling over.



### 1.2.4 NOTES ON HANDLING

#### (1) WHEN TAKING UNIT OUT OF A PACKING CASE

When taking the unit out of a packing case, do not grasp the upper part of the unit. If you take the unit out while grasping the upper part, the LCD PANEL may be damaged because of a pressure. Instead of grasping the upper part, put your hands on the lower backside or sides of the unit.

#### (2) AS FOR PRESSING OR TOUCHING A SPEAKER

Be careful not to press the opening of the speaker in the lower part of the unit and around them since the decorative sheet on the surface of the openings may be deformed.



### 1.3 HANDLING LCD PANEL

#### 1.3.1 PRECAUTIONS FOR TRANSPORTATION

When transporting the unit, pressure exerted on the internal LCD panel due to improper handling (such as tossing and dropping) may cause damages even when the unit is carefully packed. To prevent accidents from occurring during transportation, pay careful attention before delivery, such as through explaining the handling instructions to transporters.

Ensure that the following requirements are met during transportation, as the LCD panel of this unit is made of glass and therefore fragile:

- (1) **USE A SPECIAL PACKING CASE FOR THE LCD PANEL**  
When transporting the LCD panel of the unit, use a special packing case (packing materials). A special packing case is used when a LCD panel is supplied as a service spare part.
- (2) **ATTACH PROTECTION SHEET TO THE FRONT**  
Since the front (display part) of the panel is vulnerable, attach the protection sheet to the front of the LCD panel before transportation. Protection sheet is used when a LCD panel is supplied as a service spare part.
- (3) **AVOID VIBRATIONS AND IMPACTS**  
The unit may be broken if it is toppled sideways even when properly packed. Continuous vibration may shift the gap of the panel, and the unit may not be able to display images properly. Ensure that the unit is carried by at least 2 persons and pay careful attention not to exert any vibration or impact on it.
- (4) **DO NOT PLACE EQUIPMENT HORIZONTALLY**  
Ensure that it is placed upright and not horizontally during transportation and storage as the LCD panel is very vulnerable to lateral impacts and may break. During transportation, ensure that the unit is loaded along the traveling direction of the vehicle, and avoid stacking them on one another. For storage, ensure that they are stacked in 2 layers or less even when placed upright.

#### 1.3.2 OPTICAL FILTER (ON THE FRONT OF THE LCD PANEL)

- (1) Avoid placing the unit under direct sunlight over a prolonged period of time. This may cause the optical filter to deteriorate in quality and color.
- (2) Clean the filter surface by wiping it softly and lightly with a soft and lightly fuzz cloth (such as outing flannel).
- (3) Do not use solvents such as benzene or thinner to wipe the filter surface. This may cause the filter to deteriorate in quality or the coating on the surface to come off. When cleaning the filter, usually use the neutral detergent diluted with water. When cleaning the dirty filter, use water-diluted ethanol.
- (4) Since the filter surface is fragile, do not scratch or hit it with hard materials. Be careful enough not to touch the front surface, especially when taking the unit out of the packing case or during transportation.

#### 1.3.3 PRECAUTIONS FOR REPLACEMENT OF EXTERIOR PARTS

Take note of the following when replacing exterior parts (REAR COVER, FRONT PANEL, etc.):

- (1) Do not exert pressure on the front of the LCD panel (filter surface). It may cause irregular color.
- (2) Pay careful attention not to scratch or stain the front of the LCD panel (filter surface) with hands.
- (3) When replacing exterior parts, the front (LCD panel) should be placed facing downward. Place a mat, etc. underneath to avoid causing scratches to the front (filter surface).



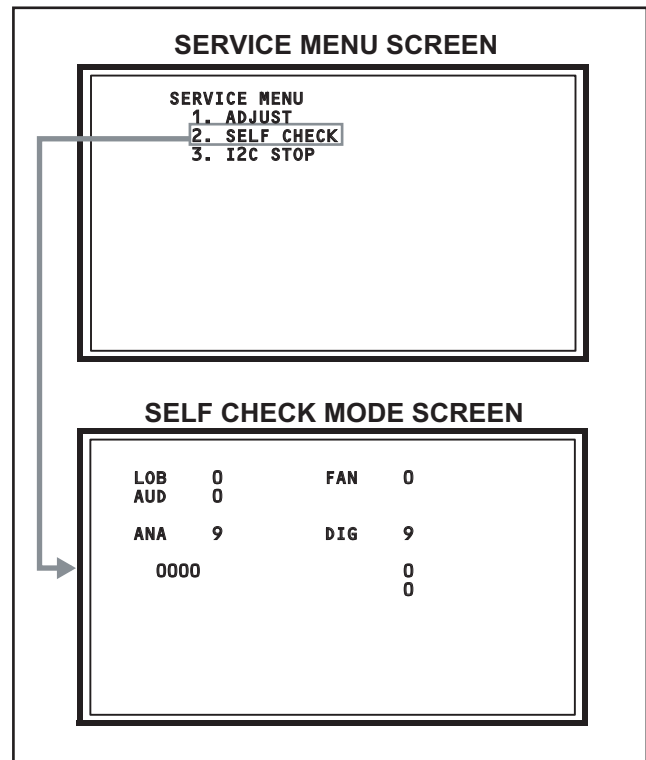
## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 SYSTEM SETTING

Be sure to carry out the following operation at the end of the procedure.

- (1) Set to 0 minutes using the **[SLEEP TIMER]** key.
- (2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the SERVICE MODE.
- (3) When the Main Menu is displayed, press **[2]** key to enter the self check mode.
- (4) Turn off the power by pressing the **[POWER]** key on the remote control unit.



#### 2.2 FEATURES

##### D.I.S.T. (Digital Image Scaling Technology)

This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

##### Color Management

This function ensures dull colors are compensated to produce natural hues.

##### Picture Management

This function makes it easier to see the dark areas when a picture has many dark areas, and makes it easier to see the bright areas when a picture has many bright areas.

##### Smart Picture

This function detects the APL (Average Picture Level) and adjusts the contrast suitable for what you are watching.

##### DIGITAL VNR

This function cuts down the amount of noise in the original picture.

##### MPEG Noise Reduction

This function effects the block noise removal and mosquito NR simultaneously.

##### Sensor Effect

With Sensor Effect ON, a "leaf" icon will appear on your TV screen when Smart Sensor brightness adjustment occurs.

#### 2.3 MAIN DIFFERENCE LIST

Item	LT-46FH97/S	LT-46FN97/S
PAINT COLOR	SILVER × BLACK	BLACK
RS-232C connector	YES	NO



## 2.4 TECHNICAL INFORMATION

### 2.4.1 LCD PANEL

This unit uses the flat type panel LCD (Liquid Crystal Display) panel that occupies as little space as possible, instead of the conventional CRT (Cathode Ray Tube), as a display unit.

Since the unit has the two polarizing filter that are at right angles to each other, the unit adopts "normally black" mode, where light does not pass through the polarizing filter and the screen is black when no voltage is applied to the liquid crystals.

#### 2.4.1.1 SPECIFICATIONS

The following table shows the specifications of this unit.

Item	Specifications
Maximum dimensions ( W × H × D )	108.3 cm × 62.7 cm × 5.8 cm
Weight	16.5 kg
Effective screen size	Diagonal: 116.9 cm (H: 101.9 cm × V: 57.3 cm)
Aspect ratio	16 : 9
Drive device / system	a-Si-TFT active matrix system
Resolution	Horizontally 1920 × Vertically 1080 × RGB < FULL HD > 6220800 dots in total
Pixel pitch (pixel size)	Horizontally: 0.53025 mm, Vertically: 0.53025 mm
Displayed color	16777216 colors 256 colors for R G and B
Brightness	450cd/m2
Contrast ratio	1200 : 1
Response time ( Tr + Tf )	less than 14 ms
View angle (Horizontally)	178°
View angle (Vertically)	178°
Surface polarizer	Anti-Glare type Low reflective coat
Color filter	Vertical stripe
Backlight	Cold cathode fluorescent lamp × 24
Power supply voltage in LCD	5 V
Power supply voltage in inverter	24 V
Panel interface system	LVDS (Low Voltage Differential Signaling)

#### 2.4.1.2 PIXEL FAULT

There are three pixel faults - bright fault , dark fault and flicker fault - that are respectively defined as follows.

##### ■ BRIGHT FAULT

In this pixel fault, a cell that should not light originally is lighting on and off.

For checking this pixel fault, input ALL BLACK SCREEN and find out the cell that is lighting on and off.

##### ■ DARK FAULT

In this pixel fault, a cell that should light originally is not lighting or lighting with the brightness twice as brighter as originally lighting.

For checking this pixel fault, input 100% of each R/G/B color and find out the cell that is not lighting.

##### ■ FLICKER FAULT

In the pixel fault, a cell that should light originally or not light originally is flashing on and off.

For checking this pixel fault, input ALL BLACK SCREEN signal or 100% of each RGB color and find out the cell that is flashing on and off.



## 2.4.2 MAIN CPU PIN FUNCTION [IC7601 : DIGITAL PWB]

Pin	Pin name	I/O	Function	Pin	Pin name	I/O	Function
1	VHOLD1	I	Data slice for main screen closed caption	51	P4.3	O	Not used
2	HFLT1	I/O	LPF for main screen closed caption video input	52	P4.2	O	Not used
3	P9.4	O	Not used	53	P4.1	O	Not used
4	P9.3	O	Not used	54	P4.0	O	Not used
5	DIGR0	O	R [0] for OSD	55	P3.7	O	Not used
6	TB1in	I	AC power for timer clock	56	P3.6	O	Not used
7	REMO	I	Remote control	57	P3.5	O	Not used
8	BYTE	I	Data bus width select [L = 16bit (fixed)]	58	P3.4	O	Not used
9	CNVss	I	CPU programming mode select [Normal = L]	59	P3.3	O	Not used
10	DIGG0	O	G [0] for OSD	60	P3.2	O	Not used
11	DIGB0	O	B [0] for OSD	61	P3.1	O	Not used
12	RESET	I	Reset for main CPU [Reset = L]	62	HSYNC	I	H. sync for OSD
13	Xout	O	System clock oscillation (crystal) : 16MHz	63	P3.0	O	Not used
14	Vss	-	GND	64	VSYSN	I	V. sync for OSD
15	Xin	I	System clock oscillation (crystal) : 16MHz	65	P2.7	O	Not used
16	Vcc1	I	3.3V stand-by power supply	66	P2.6	O	Not used
17	OSC1	I	Clock for OSD	67	P2.5	O	Not used
18	OSC2	O	Not used : Clock for OSD	68	P2.4	O	Not used
19	INT1	I	Not used : AV COMPULINK control	69	P2.3	O	Not used
20	INT0	I	Request for sub(chassis) CPU communication (serial data)	70	P2.2	O	Not used
21	OUT1	O	Ys (blanking) for OSD	71	P2.1	O	Clock for Inter IC (serial) bus control
22	OUT2	O	YM (transparence) for OSD	72	P2.0	I/O	Data for Inter IC (serial) bus control
23	P7.7	O	Not used	73	P1.7	O	Not used
24	P7.6	O	Not used	74	P1.6	O	Not used
25	P7.5	O	Not used	75	P1.5	O	Not used
26	P7.4	O	Not used	76	P1.4	O	Not used
27	CTA2/RTS2	O	Not used	77	P1.3	O	Not used
28	CLK2	O	Not used	78	P1.2	O	Not used
29	RxD2	I	Digital tuner control	79	P1.1	O	Not used
30	TxD2	O	Digital tuner control	80	P1.0	O	Function LED lighting
31	SDA2	I/O	Not used	81	P0.7	O	Communication LED lighting
32	DIGR1	O	R [1] for OSD	82	P0.6	O	Test point
33	DIGG1	O	G [1] for OSD	83	CEC_INT	O	Not used
34	DIGB1	O	B [1] for OSD	84	WAKE	O	Reset for sub(chassis) CPU
35	TxD0	I	Data receive (serial) for external programming	85	CARD_DET	I	Not used
36	RxD0	O	Data transmission (serial) for external programming	86	POWER_SW	I	Power switch (mechanical) detection
37	CLK0	I	Clock for external programming	87	SDA	I/O	Data for Inter IC (serial) bus control : memory
38	RTS0	O	Busy for external programming [Operation = H]	88	SCL	O	Clock for Inter IC (serial) bus control : memory
39	P5.7	I	Not used	89	DIGR2	O	R [2] for OSD
40	P5.6	O	Not used	90	DIGG2	O	G [2] for OSD
41	HOLD	I	CPU programming mode select [Normal = H]	91	DIGB2	O	B [2] for OSD
42	P5.4	O	Not used	92	10.0	O	Not used
43	P5.3	O	Not used	93	KEY2	I	Key scan data for front control button (MENU/CH+/CH-) KEY2
44	P5.2	O	Not used	94	KEY1	I	Key scan data for front control button (INPUT/VOL+/VOL-) KEY1
45	P5.1	O	Not used	95	VHOLD2	I	Data slice for sub screen closed caption
46	WR	O	CPU programming mode select [Normal = L]	96	HLF2	I/O	LPF for sub screen closed caption video input
47	P4.7	O	Data transmission for sub(chassis) CPU communication (serial)	97	CVIN2	I	Video(Y) for sub screen closed caption
48	P4.6	I	Data receive for sub(chassis) CPU communication (serial)	98	TVSETB	I	Test terminal [L Fixed]
49	P4.5	I	Clock for sub(chassis) CPU communication (serial)	99	VCCE	I	5V stand-by power supply
50	P4.4	O	Not used	100	CVIN1	I	Video(Y) for main screen closed caption



## SECTION 3 DISASSEMBLY

### 3.1 DISASSEMBLY PROCEDURE

#### CAUTION AT DISASSEMBLY:

- **Be sure to perform the SYSTEM SETTING, at the end of the procedure.**
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

#### 3.1.1 REMOVING THE STAND (Fig.1)

- (1) Remove the 2 screws [A] and 2 screws [B].
- (2) Remove the STAND COVER.
- (3) Remove the 4 screws [C].
- (4) Remove the STAND.

#### 3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
  - (1) Remove the JACK COVER (L/R).
  - (2) Remove the 13 screws [D], and the 5 screws [E].
  - (3) Remove the REAR COVER.

#### 3.1.3 REMOVING THE POWER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 1 screw [F].
  - (2) Remove the POWER CORD HOLDER.
  - (3) Remove the POWER CORD.
  - (4) Remove the 4 screws [G].
  - (5) Remove the MAIN POWER PWB.

#### 3.1.4 REMOVING THE D-AMP PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 2 screw [H] and 1 hook [a].
  - (2) Remove the D-AMP PWB.

#### 3.1.5 REMOVING THE ANALOG PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the D-AMP PWB.
  - (1) Remove the 3 screws [J] and 2 screws [K].
  - (2) Remove the TERMINAL BASE.
  - (3) Remove the 1 screw [L].
  - (4) Remove the TUNER BASE.
  - (5) Remove the 2 screws [M].
  - (6) Remove the D-AMP BRACKET.
  - (7) Remove the 3 screws [N] and 2 screws [P].
  - (8) Remove the ANALOG PWB.

#### 3.1.6 REMOVING THE DC-DC PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 4 screws [Q].
  - (2) Remove the BACK BRACKET.
  - (3) Remove the 2 screws [R].
  - (4) Remove the DC-DC PWB.

#### 3.1.7 REMOVING THE COOLING FAN (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
  - (1) Remove the 7 hooks [b] of the SHIELD COVER.
  - (2) Remove the SHIELD COVER by sliding it in the direction of the arrow.
  - (3) Remove the 2 screws [S].
  - (4) Remove the COOLING FAN.

#### 3.1.8 REMOVING THE ATSC TUNER MODULE PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
  - (1) Remove the 5 screws [T].
  - (2) Remove the ATSC TUNER MODULE PWB.

#### 3.1.9 REMOVING THE SD CARD PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
  - (1) Remove the 7 screws [U].
  - (2) Remove the DIGITAL PWB BRACKET.
  - (3) Remove the 1 screw [V].
  - (4) Remove the SD CARD PWB.

#### 3.1.10 REMOVING THE DIGITAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SHIELD COVER.
- Remove the ATSC TUNER MODULE PWB.
- Remove the DIGITAL PWB BRACKET.
- Remove the SD CARD PWB.
  - (1) Remove the 2 screws [W] and 2 screws [X].
  - (2) Remove the 2 screws [Y]. [LT-46FH97/S]
  - (3) Remove the SHIELD TERMINAL.
  - (4) Remove the 2 screws [Z].
  - (5) Remove the DIGITAL PWB.

#### CAUTION :

Make sure to perform the "SYSTEM SETTING", when DIGITAL PWB is replaced.



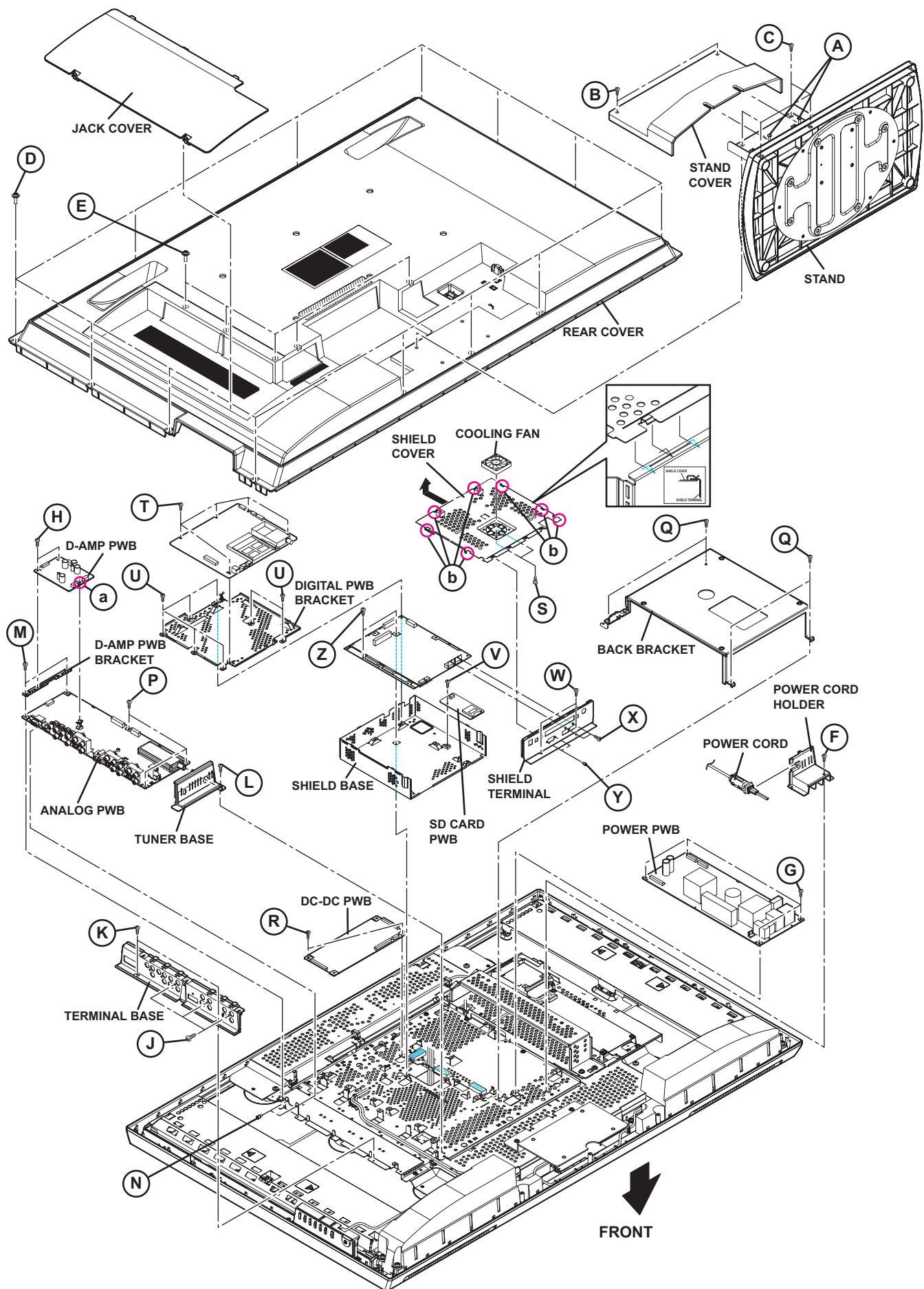


Fig.1



#### **3.1.11 REMOVING THE SPEAKER (Fig.2)**

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 6 screws **[A]**.
  - (2) Remove the SPEAKER (L /R).

#### **NOTE:**

- Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.
- When the speaker is decomposed, the performance cannot be kept.

#### **3.1.12 REMOVING THE SW PWB (Fig.1)**

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 2 screws **[B]**.
  - (2) Remove the CONTROL ASSY with the SW PWB.
  - (3) Remove the 2 screws **[C]**.
  - (4) Remove the SW PWB from the CONTROL ASS'Y.

#### **3.1.13 REMOVING THE LED PWB (Fig.2)**

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 3 screws **[D]** and 2 hooks **[a]**.
  - (2) Remove the STAND BRACKET.
  - (3) Remove the 2 screws **[E]** and 2 hooks **[b]**.
  - (4) Remove the LED PWB.

#### **3.1.14 REMOVING THE LED LENS (Fig.2)**

- Remove the STAND.
- Remove the REAR COVER.
- Remove the LED PWB.
  - (1) Remove the 2 screws **[F]**.
  - (2) Remove the LED LENS.

#### **3.1.15 REMOVING THE SUB POWER PWB (Fig.2)**

- Remove the STAND.
- Remove the REAR COVER.
  - (1) Remove the 4 screws **[G]**.
  - (2) Remove the SUB POWER PWB.

#### **3.1.16 REMOVING THE LCD PANEL UNIT (Fig.2)**

- Remove the STAND.
- Remove the REAR COVER.
- Remove the BACK BRACKET.
- Remove the SPEAKER.
- Remove the SUB POWER PWB.
- Remove the STAND BRACKET.
  - (1) Remove the 9 screws **[H]**.
  - (2) Remove the MAIN BASE.
  - (3) Remove the 4 screws **[J]**.
  - (4) Remove the BACK FRAME BRACKET.
  - (5) Remove the 2 screws **[K]**.
  - (6) Remove the SUB POWER BRACKET.
  - (7) Remove the 8 screws **[L]**.
  - (8) Remove the LCD PANEL UNIT with the MAIN BRACKET and the FRAME BRACKET.
  - (9) Remove the 2 screws **[M]** and 1 screw **[N]**.
  - (10) Remove the MAIN BRACKET (TOP/BOTTOM).
  - (11) Remove the 8 screws **[P]**.
  - (12) Remove the FRAME BRACKET(1/2).



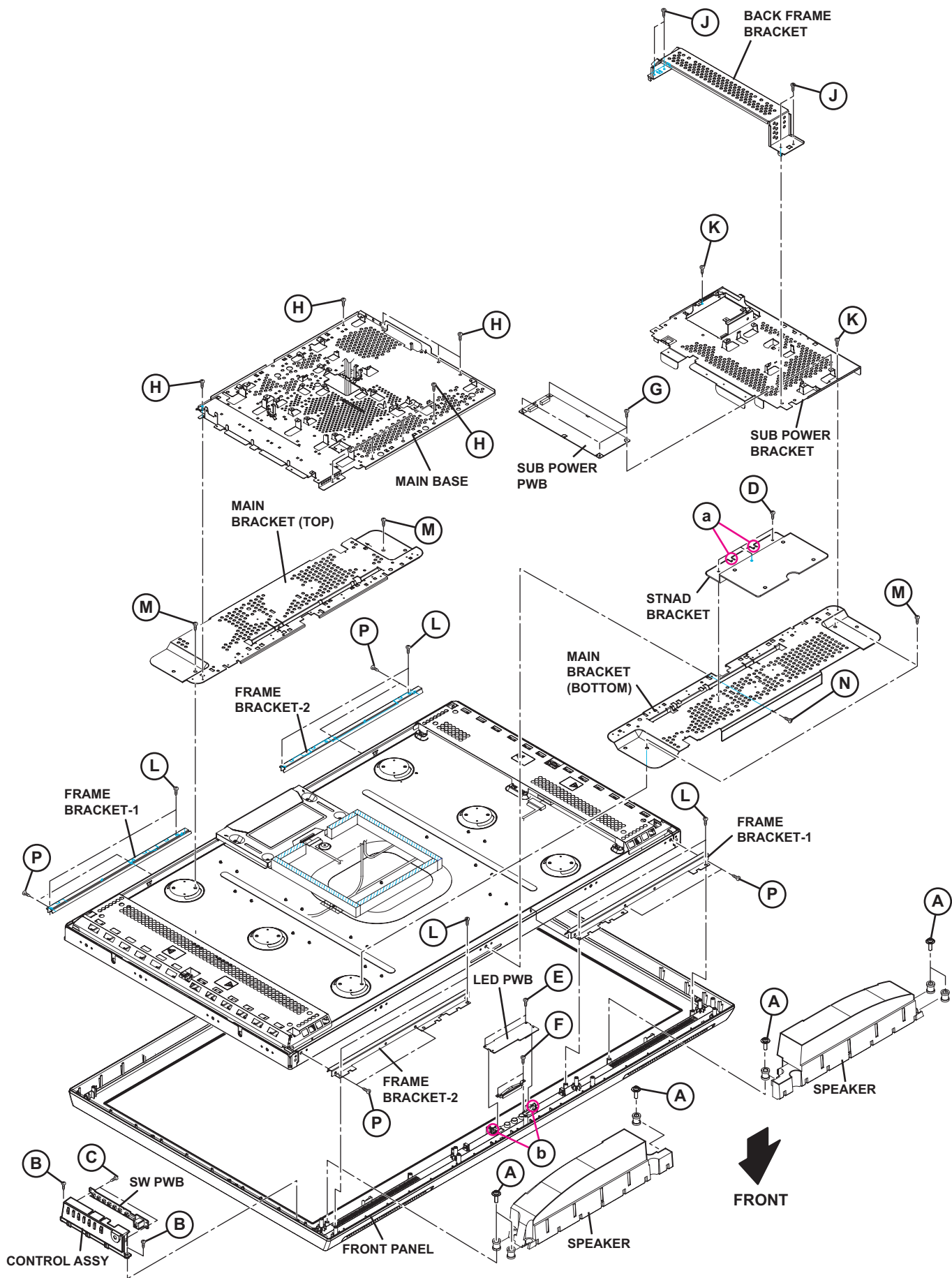


Fig.2



### 3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

#### 3.2.1 MEMORY IC TABLE

Symbol	Number of pins	Mounting PWB	Main content of data
<a href="#">IC7201</a>	48-pin	DIGITAL PWB	Program(Video process) of <a href="#">IC6001</a> (System CPU) is memorized.
<a href="#">IC7602</a>	8-pin	DIGITAL PWB	Setting value of <a href="#">IC7601</a> (MAIN CPU) is memorized.

#### 3.2.2 MEMORY IC REPLACEMENT PROCEDURE

##### 1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

##### 2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

##### 3. Power on

Connect the power plug to the AC outlet and switch on the power.

##### 4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

##### 5. User setting

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

##### 6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

#### 3.2.3 SERVICE MODE SETTING

##### ■SERVICE MODE SCREEN

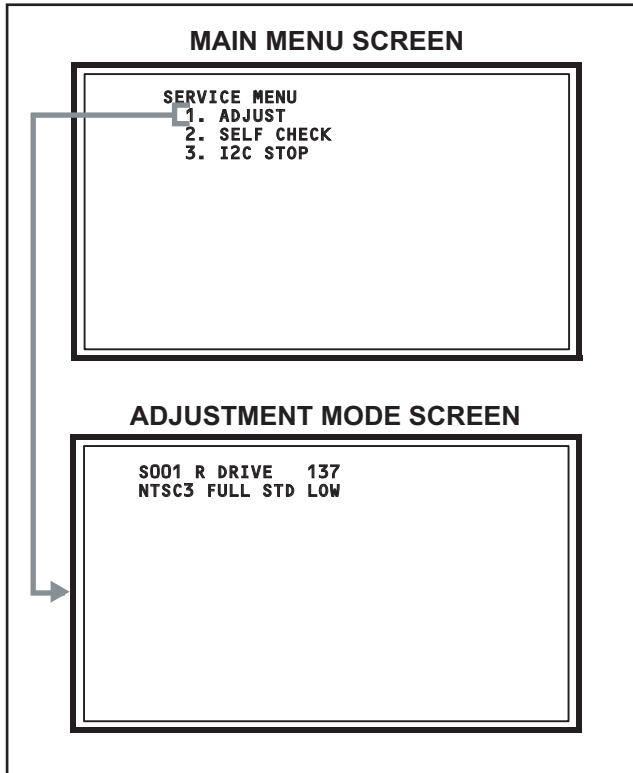


Fig.1

##### ■SETTING ITEM

Setting items	Settings	Item No.
Video system setting	Adjust	S001 - S009
Audio system setting	Adjust	T001 - T003
Main CPU system setting	Fixed	M001 - M224
Drive system setting	Fixed	F001 - F002
(Not used)	Fixed	D001
(Not used)	Fixed	Z001



### 3.2.4 SETTINGS OF FACTORY SHIPMENT

#### 3.2.4.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CABLE-02
VOLUME	10
INPUT	TV

#### 3.2.4.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
INPUT	TV
CHANNEL	CABLE-02
VOLUME	10
MUTING	OFF
DISPLAY	OFF
ASPECT	NTSC
	HD / ATSC
	PANORAMA
	FULL
SLEEP TIMER	OFF
THEATER PRO	OFF
NATURAL CINEMA	AUTO
VIDEO STATUS	DYNAMIC
MTS	STEREO
SOUND EFFECT	A.H.S.+
	VOICE ENHANCEMENT
	SMART SOUND
	MaxxBass
	OFF
	ON
	OFF
	OFF

#### 3.2.4.3 REMOTE CONTROL MENU OPERATION

##### 1. PICTURE ADJUST

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

##### < NTSC MODE >

Setting item	DYNAMIC	STANDARD	GAME	THEATER
PICTURE	+06	00	-10	00
BRIGHT	00	00	00	00
COLOR	00	00	00	00
TINT	00	00	00	00
DETAIL	+06	00	00	00
ENERGY SAVER MODE	+30	+15	00	-25
COLOR TEMPERATURE	HIGH	LOW	HIGH	HIGH
COLOR MANAGEMENT	ON	ON	ON	ON
DYNAMIC GAMMA	ON	ON	ON	ON
SMART PICTURE	OFF	ON	ON	ON
DIGITAL VNR	AUTO	AUTO	AUTO	AUTO
MPEG NR	ON	ON	ON	ON
SMART SENSOR	OFF	OFF	OFF	OFF
SENSOR EFFECT	OFF	OFF	OFF	OFF

##### < HD MODE >

Setting item	DYNAMIC	STANDARD	GAME	THEATER
PICTURE	+06	00	-10	00
BRIGHT	00	00	00	00
COLOR	00	00	00	00
TINT	00	00	00	00
DETAIL	+06	00	00	00
ENERGY SAVER MODE	+30	+15	00	-25
COLOR TEMPERATURE	HIGH	LOW	HIGH	LOW
COLOR MANAGEMENT	ON	ON	ON	ON
DYNAMIC GAMMA	ON	ON	ON	ON
SMART PICTURE	OFF	ON	ON	ON
DIGITAL VNR	AUTO	AUTO	AUTO	AUTO
MPEG NR	ON	ON	ON	ON
SMART SENSOR	OFF	OFF	OFF	OFF
SENSOR EFFECT	OFF	OFF	OFF	OFF

##### 2. SOUND ADJUST

Setting item	Setting position
BASS	00
TREBLE	00
BALANCE	00
TURN ON VOLUME	Current
VOLUME LIMIT	50

##### 3. CLOCK / TIMERS

Setting item	Setting position
ON / OFF TIMER	OFF

##### 4. INITIAL SETUP

Setting item	Setting position
VIDEO-1 MONITOR OUT	OFF
DIGITAL-IN	AUTO
DIGITAL-IN1 AUDIO	AUTO
NOISE MUTING	ON
FRONT PANEL LOCK	OFF
V1 SMART INPUT	OFF
VIDEO INPUT LABEL	All blank
POSITION ADJUSTMENT	Center
POWER INDICATOR	HIGH
ILLUMINATION	LOW
LANGUAGE	ENG.
CLOSED CAPTION	OFF
AUTO SHUT OFF	OFF
XDS ID	ON
V-CHIP	OFF



### 3.3 REPLACEMENT OF CHIP COMPONENT

#### 3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.3.2 SOLDERING IRON

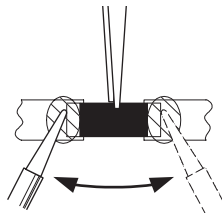
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.3.3 REPLACEMENT STEPS

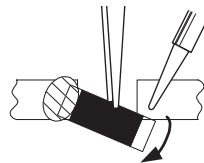
##### 1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

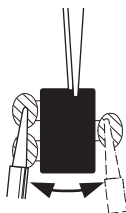


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



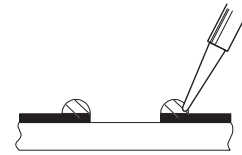
#### NOTE :

After removing the part, remove remaining solder from the pattern.

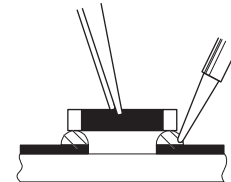
##### 2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

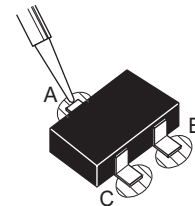


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

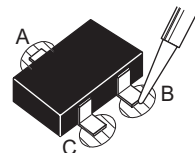


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.





## SECTION 4 ADJUSTMENT

### 4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

### 4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Setting item	Settings
VIDEO STATUS	STANDARD
BRIGHT / CONTRAST / COLOR / TINT	00
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
COLOR MANAGEMENT	ON
NATURAL CINEMA	OFF
TREBLE / BASS / BALANCE	00
SMART SOUND	OFF
MTS	STEREO
A.H.S.T	OFF
MaxxBass	OFF
ASPECT	FULL

### 4.3 MEASURING INSTRUMENT AND FIXTURES

- Signal generator (Pattern generator) [NTSC]
- TV audio multiplex signal generator
- Remote control unit

### 4.4 ADJUSTMENT ITEMS

#### ■ VIDEO CIRCUIT

- WHITE BALANCE (HIGHLIGHT) adjustment

#### ■ MTS CIRCUIT

- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

### 4.5 BASIC OPERATION OF SERVICE MODE

#### 4.5.1 HOW TO ENTER THE SERVICE MODE

- (1) Set to 0 minutes using the **[SLEEP TIMER]** key.
- (2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the SERVICE MODE (Fig.1)

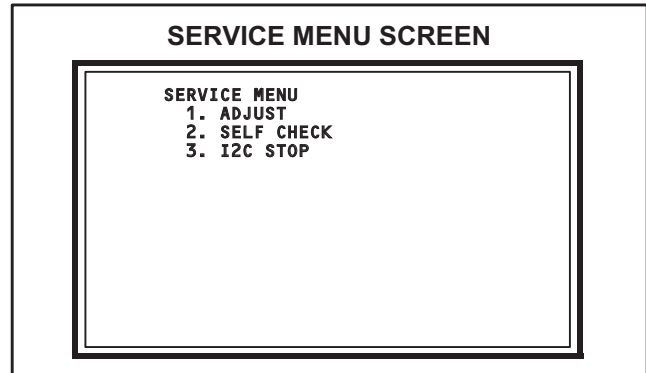


Fig.1

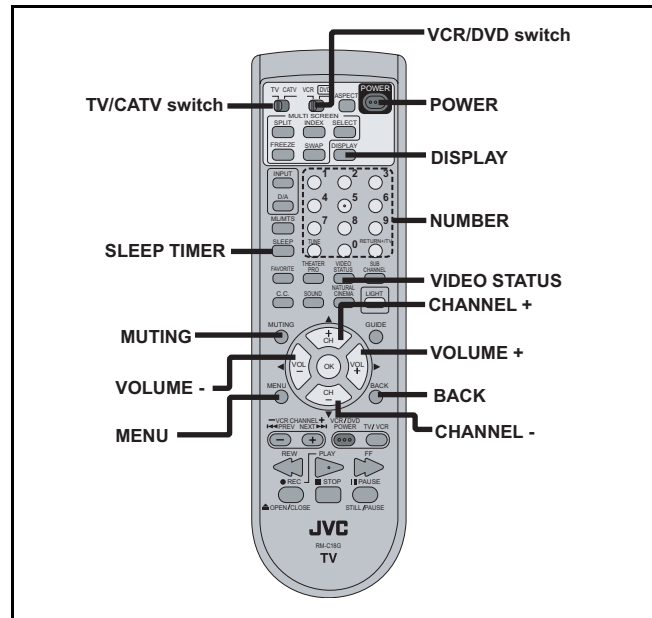
#### NOTE:

- Before entering the SERVICE MODE, confirm that the setting of **TV/CATV** switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of **VCR/DVD** switch is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.
- When a number key other than the **[1]** keys is pressed in the SERVICE MENU SCREEN, the other relevant screen may be displayed. This is not used in the adjustment procedure. Press the **[MENU]** key to return to the SERVICE MENU SCREEN.

#### 4.5.2 HOW TO EXIT THE SERVICE MODE

Press the **[BACK]** key to exit the Service mode.

#### 4.5.3 SERVICE MODE SELECT KEY LOCATION





#### 4.5.4 ADJUSTMENT MODE

This mode is used to adjust the VIDEO CIRCUIT and the MTS CIRCUIT.

##### 4.5.4.1 HOW TO ENTER THE ADJUSTMENT MODE

When the SERVICE MENU SCREEN of SERVICE MODE is displayed, press **[1]** key to enter the **ADJUSTMENT MODE**.

##### 4.5.4.2 DESCRIPTION OF STATUS DISPLAY OF ADJUSTMENT MODE

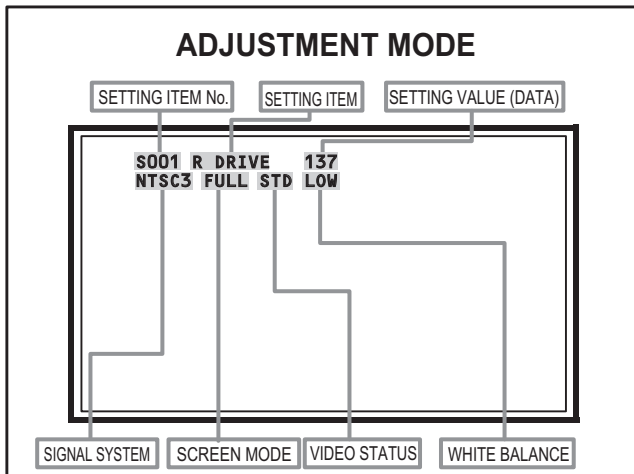


Fig.2

##### (1) SIGNAL SYSTEM

The signal displayed on the screen is displayed.

NTSC3 : 525i (Composite / S-video input)  
525I : 525i (Component input)  
525P : 525p  
1125I6 : 1125i  
750P : 750p  
PCVGA : PC (VGA)  
PCXGA : PC (XGA)  
H525I : HDMI 525i  
H525P : HDMI 525p  
H125I6 : HDMI 1125i  
H750P : HDMI 750p  
D525I : ATSC 525i  
D525P : ATSC 525p  
D125I6 : ATSC 1125i

##### (2) SCREEN MODE

State of the SCREEN SIZE or MULTI PICTURE is displayed.

###### SINGLE SCREEN

FULL : FULL  
1609 : CINEMA, CINEMA ZOOM  
PANO : PANORAMA, HD PANORAMA  
REGU : REGULAR, SLIM  
JUST : FULL NATIVE

###### MULTI SCREEN

M2 : SPLIT, FREEZE screen  
M12 : INDEX screen

##### (3) VIDEO STATUS

STD : STANDARD  
DYN : DYNAMIC  
TH : THEATER  
GAME : GAME

##### (4) WHITE BALANCE

HIGH : HIGH  
LOW : LOW

##### (5) SETTING ITEM NAME

Setting item name are displayed. The setting item numbers to be displayed are listed below.

Item No.	Setting item
S001 - S009	Video system setting
T001 - T003	Audio system setting
M001 - M224	Main CPU system setting
F001 - F002	Drive system setting
D001	(NOT USED)
Z001	(NOT USED)

##### (6) SETTING ITEM NO.

Setting item numbers are displayed. For the setting item names to be displayed, refer to "Initial setting value of adjustment mode".

##### (7) SETTING VALUE (DATA)

The SETTING VALUE is displayed.

#### 4.5.4.3 CHANGE AND MEMORY OF SETTING VALUE

##### ■SELECTION OF SETTING ITEM

- **[CH+]** / **[CH-]** key.  
Change the setting items up/ down.

S001... ↔ T001... ↔ M001... ↔ F001... ↔ D001... ↔ Z001...

- **[SLEEP TIMER]** key.  
Switches to the next items.

S001 → T001 → M001... → F001... → D001 → Z001

##### ■CHANGE OF SETTING VALUE (DATA)

- **[VOL+]** / **[VOL-]** key.  
Change the setting values up/down.

##### ■MEMORY OF SETTING VALUE (DATA)

Changed setting value is memorized by pressing **[MUTING]** key.



#### 4.6 INITIAL SETTING VALUES IN THE SERVICE MODE

- Perform fine-tuning based on the "initial values" using the remote control when in the Service mode.
- The "initial values" serve only as an indication rough standard and therefore the values with which optimal display can be achieved may be different from the default values. But, don't change the values that are not written in "ADJUSTMENT PROCEDURE". They are fixed values.

##### 4.6.1 VIDEO SYSTEM SETTING

Item No.	Item	Variable range	Setting value
S001	R DRIVE	000 - 255	137
S002	G DRIVE	000 - 255	133
S003	B DRIVE	000 - 255	128
S004	RESREV	000 - 255	000
S005	RESREV	000 - 255	000
S006	RESREV	000 - 255	002
S007	RESREV	000 - 255	002
S008	RESREV	000 - 255	002
S009	RESREV	000 - 255	002

##### 4.6.2 AUDIO SYSTEM SETTING

Item No.	Item	Variable range	Setting value
T001	INPLEVEL	000 - 015	007
T002	LOWSEPA	000 - 063	035
T003	HIGHSEPA	000 - 063	017

##### 4.6.3 MAIN CPU SYSTEM SETTING (Fixed values)

Item No.	Item	Variable range	Setting value
M001	1E00	00 - FF	00
M002	1E01	00 - FF	00
M003	1E02	00 - FF	05
M004	1E03	00 - FF	20
M005	1E04	00 - FF	10
M006	1E05	00 - FF	00
M007	1E06	00 - FF	00
M008	1E07	00 - FF	00
M009	1E08	00 - FF	00
M010	1E09	00 - FF	00
M011	1E0A	00 - FF	01
M012	1E0B	00 - FF	00
M013	1E0C	00 - FF	01
M014	1E0D	00 - FF	00
M015	1E0E	00 - FF	00
M016	1E0F	00 - FF	00
M017	1E10	00 - FF	00
M018	1E11	00 - FF	00
M019	1E12	00 - FF	00
M020	1E13	00 - FF	01
M021	1E14	00 - FF	01
M022	1E15	00 - FF	00
M023	1E16	00 - FF	00
M024	1E17	00 - FF	00

Item No.	Item	Variable range	Setting value
M025	1E18	00 - FF	00
M026	1E19	00 - FF	00
M027	1E1A	00 - FF	00
M028	1E1B	00 - FF	00
M029	1E1C	00 - FF	00
M030	1E1D	00 - FF	00
M031	1E1E	00 - FF	00
M032	1E1F	00 - FF	00
M033	1E20	00 - FF	00
M034	1E21	00 - FF	00
M035	1E22	00 - FF	00
M036	1E23	00 - FF	00
M037	1E24	00 - FF	00
M038	1E25	00 - FF	00
M039	1E26	00 - FF	00
M040	1E27	00 - FF	00
M041	1E28	00 - FF	00
M042	1E29	00 - FF	00
M043	1E2A	00 - FF	00
M044	1E2B	00 - FF	00
M045	1E2C	00 - FF	00
M046	1E2D	00 - FF	00
M047	1E2E	00 - FF	00
M048	1E2F	00 - FF	00
M049	1E30	00 - FF	00
M050	1E31	00 - FF	00
M051	1E32	00 - FF	00
M052	1E33	00 - FF	00
M053	1E34	00 - FF	00
M054	1E35	00 - FF	00
M055	1E36	00 - FF	02
M056	1E37	00 - FF	00
M057	1E38	00 - FF	01
M058	1E39	00 - FF	02
M059	1E3A	00 - FF	10
M060	1E3B	00 - FF	83
M061	1E3C	00 - FF	00
M062	1E3D	00 - FF	00
M063	1E3E	00 - FF	00
M064	1E3F	00 - FF	00
M065	1E40	00 - FF	00
M066	1E41	00 - FF	00



Item No.	Item	Variable range	Setting value
M067	1E42	00 - FF	00
M068	1E43	00 - FF	03
M069	1E44	00 - FF	03
M070	1E45	00 - FF	03
M071	1E46	00 - FF	3F
M072	1E47	00 - FF	01
M073	1E48	00 - FF	00
M074	1E49	00 - FF	00
M075	1E4A	00 - FF	00
M076	1E4B	00 - FF	00
M077	1E4C	00 - FF	00
M078	1E4D	00 - FF	00
M079	1E4E	00 - FF	00
M080	1E4F	00 - FF	00
M081	1E50	00 - FF	00
M082	1E51	00 - FF	00
M083	1E52	00 - FF	00
M084	1E53	00 - FF	00
M085	1E54	00 - FF	00
M086	1E55	00 - FF	00
M087	1E56	00 - FF	00
M088	1E57	00 - FF	00
M089	1E58	00 - FF	00
M090	1E59	00 - FF	00
M091	1E5A	00 - FF	00
M092	1E5B	00 - FF	00
M093	1E5C	00 - FF	00
M094	1E5D	00 - FF	00
M095	1E5E	00 - FF	00
M096	1E5F	00 - FF	00
M097	1E60	00 - FF	00
M098	1E61	00 - FF	00
M099	1E62	00 - FF	00
M100	1E63	00 - FF	00
M101	1E64	00 - FF	00
M102	1E65	00 - FF	00
M103	1E66	00 - FF	00
M104	1E67	00 - FF	00
M105	1E68	00 - FF	04
M106	1E69	00 - FF	03
M107	1E6A	00 - FF	02
M108	1E6B	00 - FF	00
M109	1E6C	00 - FF	00
M110	1E6D	00 - FF	00
M111	1E6E	00 - FF	00
M112	1E6F	00 - FF	00

Item No.	Item	Variable range	Setting value
M113	1E70	00 - FF	00
M114	1E71	00 - FF	00
M115	1E72	00 - FF	00
M116	1E73	00 - FF	00
M117	1E74	00 - FF	00
M118	1E75	00 - FF	00
M119	1E76	00 - FF	00
M120	1E77	00 - FF	0F
M121	1E78	00 - FF	03
M122	1E79	00 - FF	00
M123	1E7A	00 - FF	00
M124	1E7B	00 - FF	00
M125	1E7C	00 - FF	00
M126	1E7D	00 - FF	00
M127	1E7E	00 - FF	01
M128	1E7F	00 - FF	00
M129	1E80	00 - FF	01
M130	1E81	00 - FF	00
M131	1E82	00 - FF	01
M132	1E83	00 - FF	00
M133	1E84	00 - FF	00
M134	1E85	00 - FF	00
M135	1E86	00 - FF	00
M136	1E87	00 - FF	00
M137	1E88	00 - FF	00
M138	1E89	00 - FF	00
M139	1E8A	00 - FF	00
M140	1E8B	00 - FF	00
M141	1E8C	00 - FF	00
M142	1E8D	00 - FF	00
M143	1E8E	00 - FF	00
M144	1E8F	00 - FF	00
M145	1E90	00 - FF	00
M146	1E91	00 - FF	00
M147	1E92	00 - FF	00
M148	1E93	00 - FF	00
M149	1E94	00 - FF	00
M150	1E95	00 - FF	00
M151	1E96	00 - FF	00
M152	1E97	00 - FF	00
M153	1E98	00 - FF	00
M154	1E99	00 - FF	00
M155	1E9A	00 - FF	01
M156	1E9B	00 - FF	00
M157	1E9C	00 - FF	03
M158	1E9D	00 - FF	00



Item No.	Item	Variable range	Setting value
M159	1E9E	00 - FF	00
M160	1E9F	00 - FF	00
M161	1EA0	00 - FF	00
M162	1EA1	00 - FF	00
M163	1EA2	00 - FF	01
M164	1EA3	00 - FF	00
M165	1EA4	00 - FF	00
M166	1EA5	00 - FF	00
M167	1EA6	00 - FF	00
M168	1EA7	00 - FF	00
M169	1EA8	00 - FF	00
M170	1EA9	00 - FF	00
M171	1EAA	00 - FF	00
M172	1EAB	00 - FF	00
M173	1EAC	00 - FF	0A
M174	1EAD	00 - FF	00
M175	1EAE	00 - FF	00
M176	1EAF	00 - FF	00
M177	1EB0	00 - FF	00
M178	1EB1	00 - FF	00
M179	1EB2	00 - FF	01
M180	1EB3	00 - FF	00
M181	1EB4	00 - FF	00
M182	1EB5	00 - FF	00
M183	1EB6	00 - FF	00
M184	1EB7	00 - FF	00
M185	1EB8	00 - FF	00
M186	1EB9	00 - FF	00
M187	1EBA	00 - FF	00
M188	1EBB	00 - FF	00
M189	1EBC	00 - FF	00
M190	1EBD	00 - FF	00
M191	1EBE	00 - FF	00
M192	1EBF	00 - FF	00
M193	1EC0	00 - FF	00
M194	1EC1	00 - FF	00
M195	1EC2	00 - FF	01
M196	1EC3	00 - FF	00
M197	1EC4	00 - FF	00
M198	1EC5	00 - FF	00
M199	1EC6	00 - FF	00
M200	1EC7	00 - FF	00
M201	1EC8	00 - FF	01
M202	1EC9	00 - FF	00
M203	1ECA	00 - FF	00
M204	1ECB	00 - FF	00

Item No.	Item	Variable range	Setting value
M205	1ECC	00 - FF	02
M206	1ECD	00 - FF	00
M207	1ECE	00 - FF	00
M208	1ECF	00 - FF	00
M209	1ED0	00 - FF	10
M210	1ED1	00 - FF	00
M211	1ED2	00 - FF	00
M212	1ED3	00 - FF	00
M213	1ED4	00 - FF	00
M214	1ED5	00 - FF	00
M215	1ED6	00 - FF	00
M216	1ED7	00 - FF	00
M217	1ED8	00 - FF	00
M218	1ED9	00 - FF	00
M219	1EDA	00 - FF	00
M220	1EDB	00 - FF	00
M221	1EDC	00 - FF	00
M222	1EDD	00 - FF	00
M223	1EDE	00 - FF	00
M224	1EDF	00 - FF	00

#### 4.6.4 DRIVE SYSTEM SETTING (Fixed values)

Item No.	Item	Variable range	Setting value
F001	DD	000 - 001	000
F002	RAM REF	000 - 001	000

#### 4.6.5 NOT USED (Fixed values)

Item No.	Item	Variable range	Setting value
D001	RESREV	000 - 255	002

#### 4.6.6 NOT USED (Fixed values)

Item No.	Item	Variable range	Setting value
Z001	RESREV	000 - 255	002



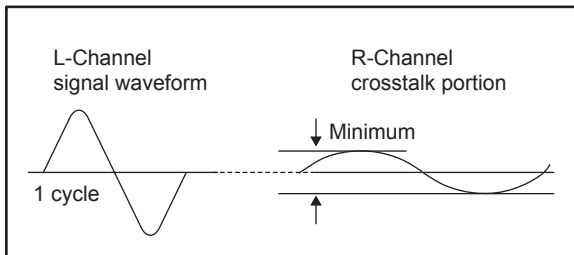
## 4.7 ADJUSTMENT PROCEDURE

### 4.7.1 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>WHITE BALANCE (HIGHLIGHT)</b>	Remote control unit  Signal generator		[1.ADJUST] S030: R DRIVE (Red drive) S031: G DRIVE (Green drive) S032: B DRIVE (Blue drive)	<p>(1) Receive a NTSC 75% all white signal.</p> <p>(2) Set "VIDEO STATUS" to "<b>STANDARD</b>".</p> <p>(3) Set "ASPECT" to "<b>FULL</b>".</p> <p>(4) Select "COLOR TEMPERATURE" to "<b>LOW</b>".</p> <p>(5) Select "<b>1.ADJUST</b>" from the SERVICE MODE.</p> <p>(6) Adjust to keep one of &lt; <b>S030</b> &gt; (Red drive), &lt; <b>S031</b> &gt; (Green drive) or &lt; <b>S032</b> &gt; (Blue drive) unchanged, then lower the other two so that the all-white screen is equally white throughout.</p> <p><b>NOTE:</b> Set one or more of &lt; <b>S030</b> &gt;, &lt; <b>S031</b> &gt;, and &lt; <b>S032</b> &gt; to "<b>137</b>".</p> <p>(7) Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it.</p> <p>(8) Press the <b>[MUTING]</b> key to memorize the set value.</p>

### 4.7.2 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>MTS INPUT LEVEL</b>	Remote control unit		[1.ADJUST] T001: IN LEVEL	<p>(1) Receive the any broadcast.</p> <p>(2) Select "<b>1.ADJUST</b>" from the SERVICE MODE.</p> <p>(3) Verify that the &lt; <b>T001</b> &gt; (IN LEVEL) is set at its initial setting value.</p> <p>(4) Press the <b>[MUTING]</b> key to memorize the set value.</p>
<b>MTS SEPARATION</b>	TV audio multiplex signal generator  Oscilloscope  Remote control unit	L OUT R OUT	[1.ADJUST] T002: LOW SEP T003: HI SEP	<p>(1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal.</p> <p>(2) Connect an oscilloscope to <b>L OUT</b> pin of the <b>AUDIO OUT</b>, and display one cycle portion of the 300Hz signal.</p> <p>(3) Change the connection of the oscilloscope to <b>R OUT</b> pin of the <b>AUDIO OUT</b>, and enlarge the voltage axis.</p> <p>(4) Select "<b>1.ADJUST</b>" from the SERVICE MODE.</p> <p>(5) Set the initial setting value of the &lt; <b>T002</b> &gt; (LOW SEP).</p> <p>(6) Adjust the &lt; <b>T002</b> &gt; so that the stroke element of the 300Hz signal will become minimum.</p> <p>(7) Change the signal to 3kHz, and similarly adjust the &lt; <b>T003</b> &gt; (HI SEP).</p> <p>(8) Press the <b>[MUTING]</b> key to memorize the set value.</p>





## SECTION 5 TROUBLESHOOTING

### 5.1 SELF CHECK FEATURE

#### 5.1.1 OUTLINE

This unit comes with the "Self check" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I<sup>2</sup>C bus and the various control lines connected to the main microcomputer.

#### 5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the Self check Display mode, confirm that the setting of **TV/CATV** SW of the REMOTE CONTROL UNIT is at the **"TV"** side and the setting of **VCR/DVD** SW is at the **"VCR"** side. If the switches have not been properly set, you cannot enter the Self check Display mode.

- (1) Set to **"0 minutes"** using the **[SLEEP TIMER]** key.
  - (2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously, then enter the service mode.
  - (3) Press the **[2]** key (SELF CHECK) before the service mode screen disappears.
  - (4) Press the **[SLEEP TIMER]** key to enter Page 2 of the SELF CHECK MODE.
- When the **[RETURN+]** key pressed, the first page change screen.

#### NOTE:

When a number key other than the **[2]** key is pressed in the SERVICE MENU SCREEN, the other relevant screen may be displayed.

This is not used in the SELF CHECK. Press the **[MENU]** key to return to the SERVICE MENU SCREEN.

#### 5.1.3 HOW TO EXIT THE SELF CHECK MODE

##### TO SAVE FAILURE HISTORY:

Turn off the power by unplugging the AC power cord plug when in the Self check display mode.

##### TO CLEAR (RESET) FAILURE HISTORY:

Turn off the power by pressing the **[POWER]** key on the remote control unit when in the Self check display mode.

#### 5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

#### NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

#### 5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be diagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I<sup>2</sup>C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start Self check check only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

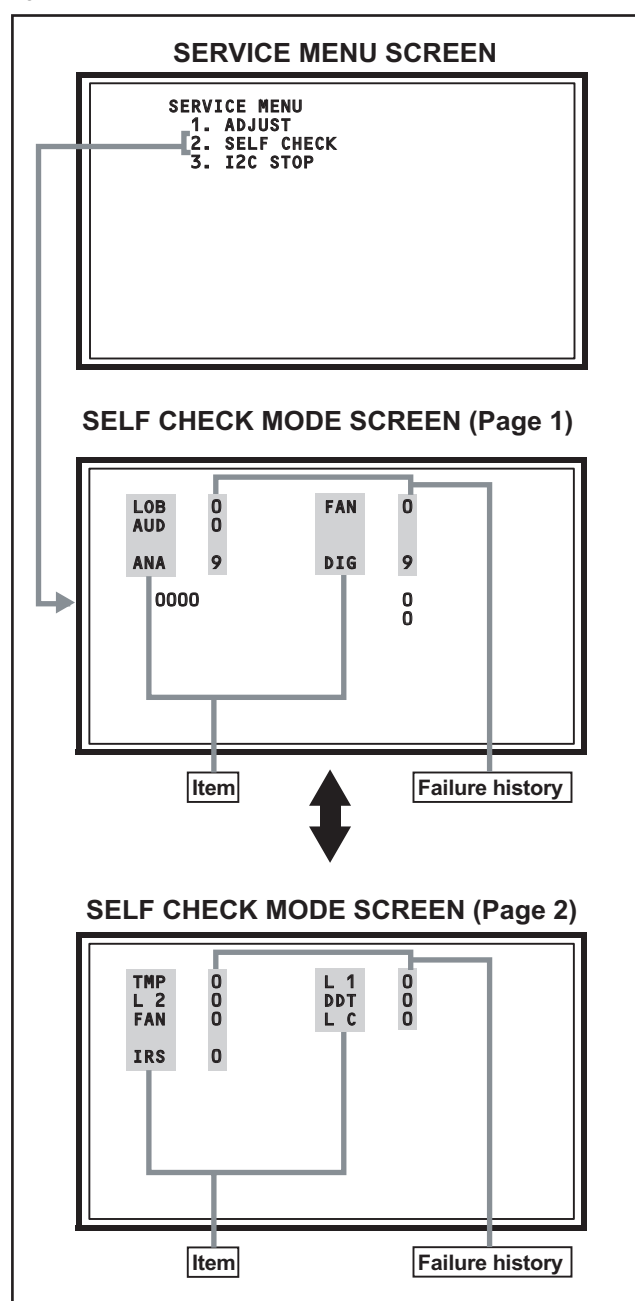


Fig.1



### 5.1.6 DETAILS

Self check is performed for the following items:

< Page 1 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Low bias line short protection	LOB	Confirm the operation of the low bias (16V / 5V / LCD5V / 3.3V / 1.2V) protection circuit. <a href="#">Q9601</a> , <a href="#">Q9651</a> [POWER PWB]	LB_PRO	Detection starts 3 seconds after the power is turned on. If error continues between 200 ms the power is turned off.
Fan lock	FAN	Not used	----	----
Audio	AUD	Not used	----	----
Devices on the ANALOG PWB	ANA	Confirmation of reply of ACK signal which uses I2C communication. <a href="#">IC101</a> , <a href="#">IC102</a> , <a href="#">IC381</a> , <a href="#">IC601</a> , <a href="#">IC606</a> , <a href="#">TU3001</a> [ANALOG PWB]	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.
Devices on the DIGITAL PWB	DIG	Confirmation of reply of ACK signal which uses I2C communication. [DIGITAL PWB]	SDA	If it checks whenever I2C communication is performed and no reply of ACK signal an error will be counted.

< Page 2 of screen >

Detection item	Display	Detection content	Diagnosis signal (line)	Detection timing
Temp. sensor	TEM	Not used	----	----
Lamp does not light up	L1	Not used	----	----
Lamp goes out	L2	Not used	----	----
Abnormal DD CPU circuit	DDT	Not used	----	----
Fan lock	FAN	Not used	----	----
Lamp cover open	LC	Not used	----	----
Abnormal of optical iris	IRS	Not used	----	----

### 5.1.7 METHOD OF DISPLAY WHEN A RASTER IS NOT OUTPUT

In the state where a raster is not output by breakdown of the set, an error is displayed by blink of the POWER LED.

Type of error	POWER LED flash cycle
Low bias line short protection	Blue LED turnig on and off at 1 second intervals.
ATSC TUNER fan lock detection	Blue LED turnig on and off at 2 second intervals.
CableCard error detection	Blue LED turnig on and off at 2 second intervals.

#### < Explanation of operation >

If error is detected, the power is turned off.

Shortly after a power is turned off, POWER LED will be blinked.

Power cannot be turned on until the power cord takes out and inserts, after a power is turned off.





Victor Company of Japan, Limited  
Display Category 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA432)



Printed in Japan  
VPT



# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% -0%



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## USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.	
	LT-46FH97/S	LT-46FN97/S
ANALOG P.W.B	SFL-1313A-M2	SFL-1314A-M2
SD CARD P.W.B	SFL-1305A-M2	←
D-AMP P.W.B	SFL-6302A-M2	←
SW P.W.B	SFL-7207A-M2	←
LED P.W.B	SFL-8713A-M2	←
MAIN POWER P.W.B	SFL-9054A-M2	←
DC-DC P.W.B	SFL-9164A-M2	←
SUB POWER P.W.B	SFL-9712A-M2	←
DIGITAL P.W.B	SFL0D182A-M2	SFL0D184A-M2
ATSC TUNER MODULE P.W.B	SSD-2101B-M2	←
REMOTE CONTROL UNIT	RM-C14G-1H	←

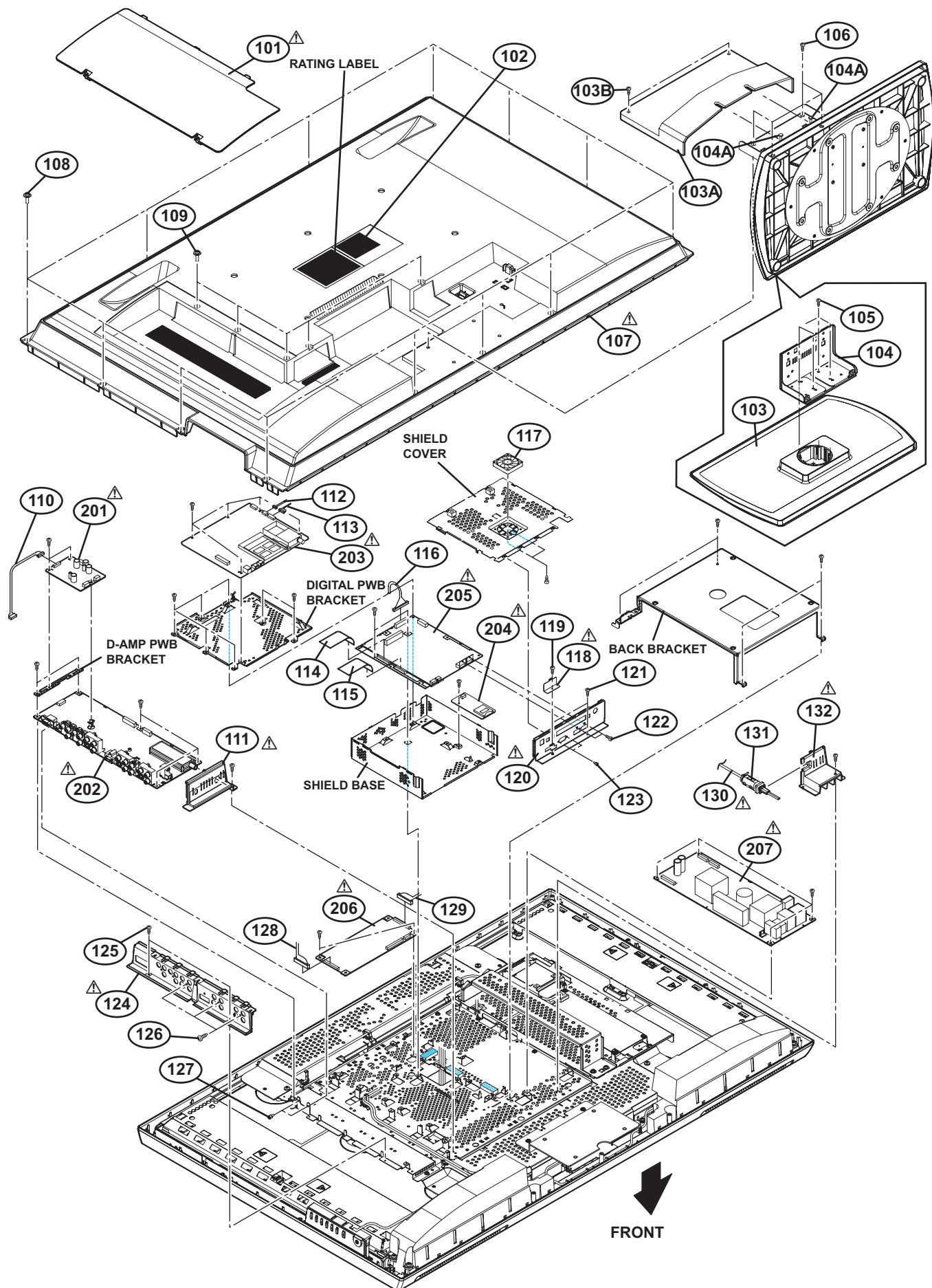


# EXPLODED VIEW PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
△	101	LC12787-001D-0K	JACK COVER		
	102	LC32925-003A-A	LICENSE LABEL		
	103	LC42549-001A-C	STAND BASE UNIT	Inc. 103A/103B	LT-46FH97S
	103	LC42549-002A-C	STAND BASE UNIT	Inc. 103A/103B	LT-46FN97S
	103A	T0172-01	STAND COVER		
	103B	P0248-M9-02-01	SCREW	(x2)	
	104	LC42531-001A-C	SUPPORT UNIT	Inc. 104A	
	104A	P0244-M9-03-01	SCREW	(x2)	
	105	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)	
	106	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)	
△	107	LC12794-002A-0K	REAR COVER ASSY		LT-46FH97S
△	107	LC12794-003A-0K	REAR COVER ASSY		LT-46FN97S
	108	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x13)	
	109	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x5)	
	110	QJJ064-100600-E	SIN CR C-C WIRE	D-AMP CN00S-ANALOG S	
△	111	LC12507-002B-0K	TUNER BASE		
	112	QJJ009-031613-E	SIN CR C-C WIRE	ATSC TUNER MODULE CN9601-DC-DC K	
	113	WJJ0719-002A-E	E-SI C WIRE C-C	ATSC TUNER MODULE CN1302-SD CARD CN200L	
	114	QUQL05-5009AA-E	FFC WIRE	DIGITAL CN001-ANALOG CN001	
	115	QUQL05-4009AA-E	FFC WIRE	DIGITAL CN002-ANALOG CN002	
	116	QJJ009-151010-E	SIN CR C-C WIRE	DIGITAL CN0DC-DC-DC DC	
	117	QAR0370-002	COOLING FAN		
△	118	LC42340-001B-HK	SERVICE COVER		
	119	LC42446-001A	SCREW		
△	120	LC12497-012A-HK	SHIELD TERMINAL		LT-46FH97S
△	120	LC12497-003B-HK	SHIELD TERMINAL		LT-46FN97S
	121	LC42446-001A	SCREW		
	122	QYSPSP3004ZA	SCREW	M3 x 4mm(x2)	
	123	QNB0036-001	CONN ACCESSORY	(x2)	LT-46FH97S
△	124	LC12506-002D-0K	TERMINAL BASE		
	125	LC42446-002A	SCREW	(x2)	
	126	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x3)	
	127	QNB0036-001	CONN ACCESSORY	(x2)	
	128	QJJ009-150710-E	SIN CR C-C WIRE	DC-DC H-ANALOG H	
	129	QJJ009-151010-E	SIN CR C-C WIRE	DC-DC A-MAIN POWER A	
△	130	QMPD710-170-JC	POWER CORD(US/CA)	1.7m BLACK	
	131	QQR0491-001	FERRITE CORE		
△	132	LC22007-002A	POWER CORD HOLDER		
△	201	SFL-6302A-M2	D-AMP PWB		
△	202	SFL-1313A-M2	ANALOG PWB		LT-46FH97S
△	202	SFL-1314A-M2	ANALOG PWB		LT-46FN97S
△	203	SSD-2101B-M2	ATSC TUNER MODULE PWB		
△	204	SFL-1305A-M2	SD CARD PWB		
△	205	SFL0D182A-M2	DIGITAL PWB		LT-46FH97S
△	205	SFL0D184A-M2	DIGITAL PWB		LT-46FN97S
△	206	SFL-9164A-M2	DC-DC PWB		
△	207	SFL-9054A-M2	MAIN POWER PWB		



# EXPLODED VIEW -1



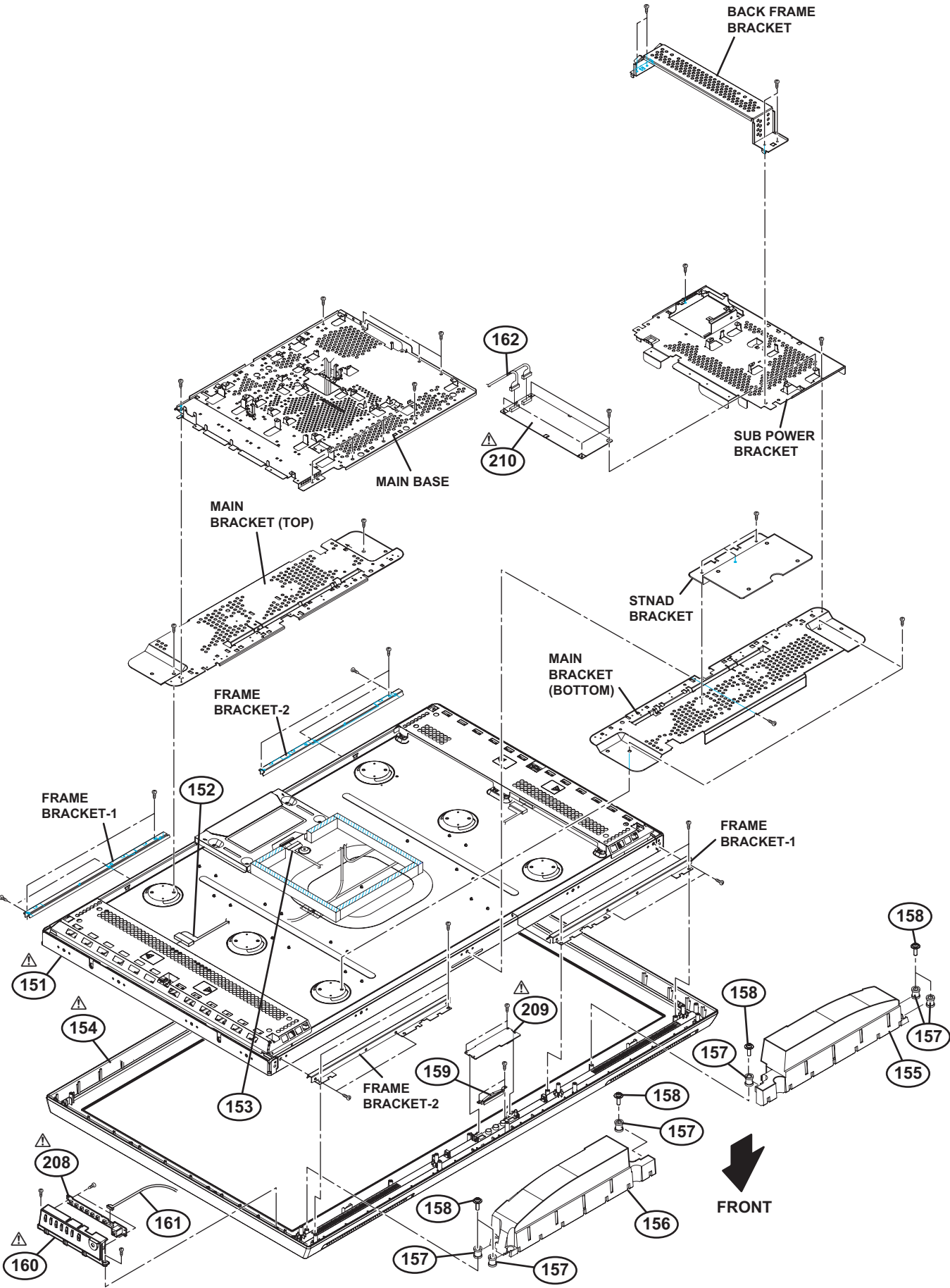


# EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	151	QLD0434-002-JIM	LCD PANEL UNIT		
	152	WJZ0212-001A-E	E-HARNESS ASSY	MAIN POWER P-LCD PANEL UNIT	
	153	WJW0046-001A-E	DIGITAL(LVDS) CABLE	DIGITAL CN0LV1-LCD PANEL UNIT	
△	154	LC12793-002C-0K	FRONT PANEL ASSY		LT-46FH97S
△	154	LC12793-003C-0K	FRONT PANEL ASSY		LT-46FN97S
	155	LC42523-001A-C	SPEAKER ASSY	LEFT	
	156	LC42523-002A-C	SPEAKER ASSY	RIGHT	
	157	LC40226-005A-H	SPACER	(x6)	
	158	LC41458-002A	TAPPING SCREW	(x6)	
	159	LC33407-001B-HK	ILLUMINATE LENS		
△	160	LC33404-005A-HK	CONTROL ASSY		
	161	WJZ0214-002A-E	E-HARNESS ASSY	SW CN100R-ANALOG R	
	162	WJZ0215-001A-E	E-HARNESS ASSY	SUB POEWR F-D-AMP CN10F	
△	208	SFL-7207A-M2	SW PWB		
△	209	SFL-8713A-M2	LED PWB		
△	210	SFL-9712A-M2	SUB POWER PWB		



EXPLODED VIEW -2





# PRINTED WIRING BOARD PARTS LIST [LT-46FH97/s]

## ANALOG P.W. BOARD ASS'Y (SFL-1313A-M2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	R2S11004FT	IC		D607	1SS355W-X	DIODE	
IC102	R2S11003FT	IC		D608	1SS355W-X	DIODE	
IC103	MM1510XN-X	IC		D615	1SS355W-X	DIODE	
IC104	MM1510XN-X	IC		D621	1SS355W-X	DIODE	
IC105	MM1510XN-X	IC		D622	1SS355W-X	DIODE	
IC106	CD4066BNS-X	IC		D751	1SS355W-X	DIODE	
IC381	M62320FP-X	IC		D752	1SS355W-X	DIODE	
IC501	RC4558D-X	IC					
IC502	AK4554VT-X	IC		C101	NEHL1CM-107X	E CAPACITOR	100uF 16V M
IC551	JCC5067	IC		C102	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
IC552	PQ2L3152MS-X	IC		C103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
IC601	NJW1182FP1	IC		C106	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
IC606	M62320FP-X	IC		C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC661	MX3000CS-X	IC		C108	NEHL1CM-476X	E CAPACITOR	47uF 16V M
IC751	BH3547F-X	IC		C116	NCB11AK-106X	C CAPACITOR	10uF 10V K
IC902	BA33BC0FP-X	IC		C117	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC3101	CXA2205Q-X	IC		C118	NCB31AK-105X	C CAPACITOR	1uF 10V K
				C119	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q101	RT1N441C-X	TRANSISTOR		C120	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q102	RT1N441C-X	TRANSISTOR		C121	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q106	SSM3K17FU-X	MOS FET		C122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q107	SSM3K17FU-X	MOS FET		C123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q108	2SC1623A/5-6/-X	TRANSISTOR		C124	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q109	2SA1022/BC/-X	TRANSISTOR		C125	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q110	2SA1022/BC/-X	TRANSISTOR		C126	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q111	2SA1022/BC/-X	TRANSISTOR		C127	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q112	2SA1022/BC/-X	TRANSISTOR		C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q113	2SC1623A/5-6/-X	TRANSISTOR		C129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q281	2SA812A/5-6/-X	TRANSISTOR		C130	NEHL1CM-476X	E CAPACITOR	47uF 16V M
Q431	RT4N430C-X	DIGI TRANSISTOR		C131	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q432	RT4N430C-X	DIGI TRANSISTOR		C132	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q433	RT1P440C-X	DIGI TRANSISTOR		C133	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q501	2SC3928A/QR/-X	TRANSISTOR		C134	NCB31CK-105X	C CAPACITOR	1uF 16V K
Q502	2SC3928A/QR/-X	TRANSISTOR		C135	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q503	2SC3928A/QR/-X	TRANSISTOR		C136	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q553	2SC3928A/QR/-X	TRANSISTOR		C137	NCB11AK-106X	C CAPACITOR	10uF 10V K
Q614	2SA1530A/QR/-X	TRANSISTOR		C138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q621	2SA1530A/QR/-X	TRANSISTOR		C139	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q622	2SC3928A/QR/-X	TRANSISTOR		C141	NEHL1CM-106X	E CAPACITOR	10uF 16V M
Q751	2SA1530A/QR/-X	TRANSISTOR		C142	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q752	UN2226-X	DIGI TRANSISTOR		C143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q3001	2SA1530A/QR/-X	TRANSISTOR		C144	NCB31AK-105X	C CAPACITOR	1uF 10V K
Q3002	2SC3928A/QR/-X	TRANSISTOR		C145	NEHL1CM-106X	E CAPACITOR	10uF 16V M
				C146	NEHL1AM-107X	E CAPACITOR	100uF 10V M
D105	1SS355W-X	DIODE		C147	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D281	1SS355W-X	DIODE		C148	NCB31AK-105X	C CAPACITOR	1uF 10V K
D282	1SS355W-X	DIODE		C149	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D283	1SS355W-X	DIODE		C150	NEHL1AM-107X	E CAPACITOR	100uF 10V M
D401	UDZW10B-X	Z DIODE		C151	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D402	UDZW10B-X	Z DIODE		C152	NCB31AK-105X	C CAPACITOR	1uF 10V K
D403	UDZW10B-X	Z DIODE		C153	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D404	UDZW10B-X	Z DIODE		C154	NEHL1AM-107X	E CAPACITOR	100uF 10V M
D405	UDZW10B-X	Z DIODE		C155	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D406	UDZW10B-X	Z DIODE		C156	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D407	UDZW10B-X	Z DIODE		C157	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D408	UDZW10B-X	Z DIODE		C158	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D409	UDZW10B-X	Z DIODE		C161	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D411	UDZW10B-X	Z DIODE		C166	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D412	UDZW10B-X	Z DIODE		C167	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D413	UDZW10B-X	Z DIODE		C168	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D414	UDZW10B-X	Z DIODE		C169	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D415	UDZW10B-X	Z DIODE		C170	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D416	UDZW10B-X	Z DIODE		C171	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D420	UDZW10B-X	Z DIODE		C172	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
D421	UDZW10B-X	Z DIODE		C173	NDC31HJ-680X	C CAPACITOR	68pF 50V J
D422	UDZW10B-X	Z DIODE		C174	NDC31HJ-331X	C CAPACITOR	330pF 50V J
D423	UDZW10B-X	Z DIODE		C175	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D424	UDZW10B-X	Z DIODE		C176	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D425	UDZW10B-X	Z DIODE		C177	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D427	UDZW10B-X	Z DIODE		C178	NCB31AK-105X	C CAPACITOR	1uF 10V K
D428	UDZW10B-X	Z DIODE		C179	NEHL1CM-476X	E CAPACITOR	47uF 16V M
D431	UDZW10B-X	Z DIODE		C180	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D432	UDZW10B-X	Z DIODE		C181	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D461	UDZW10B-X	Z DIODE		C182	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D462	UDZW10B-X	Z DIODE		C183	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D463	UDZW10B-X	Z DIODE		C184	NDC31HJ-221X	C CAPACITOR	220pF 50V J
D464	UDZW10B-X	Z DIODE		C185	NDC31HJ-820X	C CAPACITOR	82pF 50V J
D465	UDZW10B-X	Z DIODE		C187	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D466	UDZW10B-X	Z DIODE		C189	NEHL1CM-106X	E CAPACITOR	10uF 16V M
D491	UDZW3.3B-X	Z DIODE		C199	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D492	S9648	PHOTO CONDUCTOR		C200	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D501	1SS355W-X	DIODE		C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D502	1SS355W-X	DIODE		C202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D605	1SS355W-X	DIODE		C204	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
D606	1SS355W-X	DIODE		C206	NCB11CK-475X	C CAPACITOR	4.7uF 16V K
				C207	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
				C208	NCB11CK-225X	C CAPACITOR	2.2uF 16V K



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C209	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C572	NCB31CK-105X	C CAPACITOR	1uF 16V K
C210	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C573	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C211	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C574	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C261	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C575	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C262	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C576	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C263	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C577	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C264	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C578	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C281	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C579	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C381	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C612	NEHL1CM-107X	E CAPACITOR	100uF 16V M
C382	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C614	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C383	NCB31AK-105X	C CAPACITOR	1uF 10V K	C615	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C616	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C402	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C617	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C403	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C623	NCB21CK-184X	C CAPACITOR	0.18uF 16V K
C404	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C624	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C405	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C625	NCB31HK-183X	C CAPACITOR	0.018uF 50V K
C406	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C628	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C407	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C629	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C408	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C630	NCB21CK-184X	C CAPACITOR	0.18uF 16V K
C409	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C410	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C633	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C411	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C634	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C412	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C635	NCB31HK-681X	C CAPACITOR	680pF 50V K
C413	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C636	NCB31HK-681X	C CAPACITOR	680pF 50V K
C417	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C638	NCB31EK-223X	C CAPACITOR	0.022uF 25V K
C418	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C639	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C419	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C640	NCB31CK-105X	C CAPACITOR	1uF 16V K
C420	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C641	NCB31CK-105X	C CAPACITOR	1uF 16V K
C421	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C642	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C422	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C644	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C424	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C646	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C425	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C647	NCB31CK-105X	C CAPACITOR	1uF 16V K
C431	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C648	NCB31CK-105X	C CAPACITOR	1uF 16V K
C432	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C649	NCB31CK-105X	C CAPACITOR	1uF 16V K
C433	NCB11CK-105X	C CAPACITOR	1uF 16V K	C650	NCB31CK-105X	C CAPACITOR	1uF 16V K
C461	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C651	NCB31CK-105X	C CAPACITOR	1uF 16V K
C462	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C653	NCB31EK-223X	C CAPACITOR	0.022uF 25V K
C463	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C654	NCB31CK-473X	C CAPACITOR	0.047uF 16V K
C464	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C655	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C465	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C657	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C466	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C659	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C468	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C660	NCB31CK-105X	C CAPACITOR	1uF 16V K
C469	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C661	NCB31CK-105X	C CAPACITOR	1uF 16V K
C491	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C662	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C492	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C663	NCB31CK-105X	C CAPACITOR	1uF 16V K
C493	NEHL1CM-107X	E CAPACITOR	100uF 16V M	C664	NCB31CK-105X	C CAPACITOR	1uF 16V K
C494	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C665	NCB31CK-105X	C CAPACITOR	1uF 16V K
C501	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C666	NCB11AK-106X	C CAPACITOR	10uF 10V K
C502	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C667	NCB31CK-105X	C CAPACITOR	1uF 16V K
C503	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C668	NCB31CK-105X	C CAPACITOR	1uF 16V K
C504	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C669	NCB31CK-105X	C CAPACITOR	1uF 16V K
C505	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C670	NCB31CK-105X	C CAPACITOR	1uF 16V K
C506	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C671	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C507	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C672	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C508	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C673	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C509	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C674	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C510	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C675	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C511	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C676	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C512	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C677	NCB31CK-105X	C CAPACITOR	1uF 16V K
C513	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C678	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C514	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C679	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C515	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C680	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C516	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C681	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C517	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	C682	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C518	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C685	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C519	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C686	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C520	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C687	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C531	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C688	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C532	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C716	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C551	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C717	NCB31AK-105X	C CAPACITOR	1uF 10V K
C552	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C751	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C553	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C752	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C753	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C555	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C754	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C556	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C755	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C756	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C558	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C757	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C559	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C758	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C560	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C759	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C561	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C760	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C562	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C761	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C563	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C904	NCB11AK-106X	C CAPACITOR	10uF 10V K
C564	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C905	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C565	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C566	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M
C567	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C568	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C920	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C569	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3001	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C570	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	C3002	NEHL1HM-106X	E CAPACITOR	10uF 50V M
C571	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C3005	NCB11AK-106X	C CAPACITOR	10uF 10V K



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C3006	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C3007	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R228	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3008	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R231	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C3106	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R232	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C3107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R237	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3108	NCB11AK-106X	C CAPACITOR	10uF 10V K	R238	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3109	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R241	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3111	NCB11AK-106X	C CAPACITOR	10uF 10V K	R243	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3112	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R245	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3113	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R246	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3114	NCB11AK-106X	C CAPACITOR	10uF 10V K	R247	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R249	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3116	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3117	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3118	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R255	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3119	NCB21CK-105X	C CAPACITOR	1uF 16V K	R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3120	NCB11AK-106X	C CAPACITOR	10uF 10V K	R259	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3121	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R260	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3122	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	R261	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C3123	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3124	NCB31HK-272X	C CAPACITOR	2700pF 50V K	R263	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3125	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3126	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R265	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3127	NCB31HK-562X	C CAPACITOR	5600pF 50V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3128	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	R267	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3129	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R280	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3130	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R284	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C3131	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R286	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C3132	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R288	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3133	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R289	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3134	NCB11AK-106X	C CAPACITOR	10uF 10V K	R293	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3135	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R294	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3136	NCB21CK-105X	C CAPACITOR	1uF 16V K	R295	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3137	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R296	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3155	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R297	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3156	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R300	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R301	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R102	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R302	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R103	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R303	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R104	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R304	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R382	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R384	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R390	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R391	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R402	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R403	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R140	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R404	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R141	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R405	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R142	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R406	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R143	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R407	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R144	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R408	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R145	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R410	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R146	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R147	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R412	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R150	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R413	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R153	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R414	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R154	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R418	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R157	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R419	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R158	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R420	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R422	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R423	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R164	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R426	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R165	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R427	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R166	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R167	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R433	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R168	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R434	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R169	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R435	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R181	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R183	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R437	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R184	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R438	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R439	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R188	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R440	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R194	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R441	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R195	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R442	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R197	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R443	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R198	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R444	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R461	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R464	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R206	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R467	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R207	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R475	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R476	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R491	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R221	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R223	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R502	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R224	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
				R504	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R505	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R694	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R695	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R507	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R696	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R700	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R513	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R713	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R517	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R718	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R518	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R719	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R519	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R720	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R723	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R521	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R758	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R527	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R528	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R529	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R761	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R764	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R765	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R532	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R769	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R553	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R921	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R554	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R922	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R924	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R557	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R925	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R560	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R926	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R927	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R563	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R564	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R566	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3006	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R567	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R568	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R569	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R570	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R571	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R3013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R572	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R573	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3119	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J
R574	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3122	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R575	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3123	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J
R576	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3125	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R577	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3126	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R578	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3128	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3129	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3131	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3132	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R587	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R588	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3167	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R593	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3206	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R594	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L101	NQL79GM-100X	COIL	10uH M
R621	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R622	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	L902	NQL52EM-220X	COIL	22uH M
R623	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L903	NQR0562-010X	CHOKE COIL	
R624	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L906	NQL52EM-220X	COIL	22uH M
R625	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L3001	NQL79GM-100X	COIL	10uH M
R626	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L3002	NQL79GM-100X	COIL	10uH M
R634	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	CN001	QGF0508C2-50W	CONNECTOR	FFC/FPC (1-50)
R635	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	CN002	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)
R636	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	J401	QNZ0726-002	AV JACK	INPUT-1(S/V/L/R)
R638	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	J402	QNN0650-002	PIN JACK	INPUT-1(COMPLEMENT)
R639	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J403	QNZ0726-002	AV JACK	INPUT-2(S/V/L/R)
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J405	QNN0651-002	PIN JACK	INPUT-3(V/L/R)
R642	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	J406	QNN0650-002	PIN JACK	INPUT-3(COMPLEMENT)
R644	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	J407	QNN0652-002	PIN JACK	AUDIO IN
R647	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	J408	QNZ0726-002	AV JACK	MONITOR/REC OUT
R649	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	J410	QNZ0561-001	D CONNECTOR	PC IN
R650	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K661	NQR0499-002X	FERRITE BEADS	
R651	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K662	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R652	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R653	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	TU3001	QAU0430-002	TUNER	
R654	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X551	NAX0623-001X	C RESONATOR	8.00MHz
R661	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	X661	NAX0857-001X	C RESONATOR	25.00MHz
R662	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R665	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R666	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R669	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J				
R670	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R671	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R687	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				



## SD CARD P.W. BOARD ASS'Y (SFL-1305A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC2001	AU9331C23-MAS-X	IC		
Q2001	2SA1576A/QRS/-X	TRANSISTOR		
C2001	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2002	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2003	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C2004	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2005	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C2006	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2007	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C2008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2009	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2010	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2011	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C2012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C2013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
C2015	NEHL0GM-227X	E CAPACITOR	220uF 4V M	
C2016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	
R2001	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R2003	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2004	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	
R2005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R2006	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R2007	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R2008	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2009	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R2010	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R2014	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R2015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
RA2001	NRZ0040-103X	NET RESISTOR	10kΩ 1/16W J x4	
RA2002	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4	
L2001	NQR0603-002X	EMI FILTER		
JK2001	NNZ0058-001X	SD CARD CONNECTOR		
K2001	NQR0499-002X	FERRITE BEADS		
K2002	NQR0499-002X	FERRITE BEADS		
LC2001	NQR0483-007X	EMI FILTER		
X2001	NAX0877-001X	CRYSTAL	12MHz	

## D-AMP P.W. BOARD ASS'Y (SFL-6302A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC6201	PQ20WZ11-X	IC		
IC6501	RC4558D-X	IC		
IC6621	LM393DR-X	IC		
IC6661	TDA8928ST/N1	IC		
Q6611	2SC1623A/5-6/-X	TRANSISTOR		
Q6612	2SC1623A/5-6/-X	TRANSISTOR		
Q6613	2SA812A/5-6/-X	TRANSISTOR		
Q6661	UN2112-X	DIGI TRANSISTOR		
Q6662	2SC1623A/5-6/-X	TRANSISTOR		
Q6663	UN2212-X	DIGI TRANSISTOR		
D6201	1SS355W-X	DIODE		
D6501	UDZW6.2B-X	Z DIODE		
D6663	UDZW3.3B-X	Z DIODE		
D6664	1SS355W-X	DIODE		
D6671	UDZW20B-X	Z DIODE		
D6672	UDZW20B-X	Z DIODE		
D6673	UDZW20B-X	Z DIODE		
D6674	UDZW20B-X	Z DIODE		
C6201	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6202	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6203	NEHL1EM-336X	E CAPACITOR	33uF 25V M	
C6204	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6205	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C6501	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6502	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	
C6503	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6504	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6505	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C6506	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C6507	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C6508	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C6601	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6602	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C6611	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	

△Ref No.	Part No.	Part Name	Description	Local
C6621	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6622	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6623	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6624	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6625	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6626	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C6627	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6628	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6629	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C6630	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6631	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C6632	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C6661	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6662	NCB11EK-105X	C CAPACITOR	1uF 25V K	
C6663	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6664	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6665	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6666	QETN1HM-226Z	E CAPACITOR	22uF 50V M	
C6667	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6668	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6669	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6670	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
C6671	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6672	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6673	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6674	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6675	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6676	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6677	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6678	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C6679	QFVF1HJ-184Z	MF CAPACITOR	0.18uF 50V J	
C6680	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	
C6681	NCB31HK-561X	C CAPACITOR	560pF 50V K	
C6682	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6683	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C6684	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6685	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
C6686	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C6687	QETN1EM-477Z	E CAPACITOR	470uF 25V M	
R6201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6202	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R6203	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R6204	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6205	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R6501	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6502	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6503	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6504	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	
R6505	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R6506	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6507	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6601	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6602	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6603	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6605	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6606	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R6607	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6611	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6612	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6613	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R6614	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6621	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R6622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6623	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6624	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J	
R6625	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6626	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6627	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6629	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R6630	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R6631	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6632	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R6633	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	
R6634	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6661	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6662	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R6663	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6664	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R6665	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R6666	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J	
R6667	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R6668	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J	
R6669	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J	
R6670	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	
R6671	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R6673	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R6674	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R6675	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R6676	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	



△Ref No.	Part No.	Part Name	Description Local
R6677	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6680	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6691	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
L6661	NQLC8CM-560X	COIL	56uH M
L6662	NQLC8CM-560X	COIL	56uH M
K6601	NQR0499-002X	FERRITE BEADS	
K6602	NQR0499-002X	FERRITE BEADS	
K6661	NQR0499-002X	FERRITE BEADS	
K6662	NQR0499-002X	FERRITE BEADS	
K6663	NQR0499-002X	FERRITE BEADS	
K6664	NQR0499-002X	FERRITE BEADS	

## SW P.W. BOARD ASS'Y (SFL-7207A-M2)

△Ref No.	Part No.	Part Name	Description Local
D7011	UDZW6.2B-X	Z DIODE	
C7011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C7702	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C7703	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
R7011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7012	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R7013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7015	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R7016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7701	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R7702	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R7703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R7704	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R7705	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7706	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7709	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R7712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L7001	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L7002	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
J7001	QNS0051-001	3.5 JACK	HEADPHONE
K7001	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
S7701	QSW0619-003Z	PUSH SWITCH	CHANNEL-
S7702	QSW0619-003Z	PUSH SWITCH	CHANNEL+
S7703	QSW0619-003Z	PUSH SWITCH	MENU/OK
S7704	QSW0619-003Z	PUSH SWITCH	INPUT
S7705	QSW0619-003Z	PUSH SWITCH	VOLUME+
S7706	QSW0619-003Z	PUSH SWITCH	VOLUME-
S7707	QSW0619-003Z	PUSH SWITCH	POWER

## LED P.W. BOARD ASS'Y (SFL-8713A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC8751	S9648	PHOTO CONDUCTOR	
IC8752	GP1UM261RKVF	IR DETECT UNIT	
Q8701	RT1N241C-X	DIGI TRANSISTOR	
Q8702	RT1P440C-X	DIGI TRANSISTOR	
Q8703	RT1P440C-X	DIGI TRANSISTOR	
Q8704	RT1P440C-X	DIGI TRANSISTOR	
Q8705	RT1P440C-X	DIGI TRANSISTOR	
Q8706	RT1P440C-X	DIGI TRANSISTOR	
Q8707	RT1P440C-X	DIGI TRANSISTOR	
Q8708	RT1N241C-X	DIGI TRANSISTOR	
Q8709	RT1N241C-X	DIGI TRANSISTOR	
Q8712	RT1N241C-X	DIGI TRANSISTOR	
Q8713	RT1N241C-X	DIGI TRANSISTOR	
D8702	SEL5E20C-T	LED	POWER
D8703	SEL5920A-T	LED	PROGRAM/TIMER
D8705	SELU5E20C/EF/-T	LED	ILLUMINATION
D8706	UDZW6.8B-X	Z DIODE	
D8707	UDZW6.8B-X	Z DIODE	
D8712	UDZW6.8B-X	Z DIODE	
D8713	UDZW6.8B-X	Z DIODE	
C8751	NEHL1EM-226X	E CAPACITOR	22uF 25V M
C8752	NEHL1CM-476X	E CAPACITOR	47uF 16V M

△Ref No.	Part No.	Part Name	Description Local
R8711	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R8712	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8713	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8714	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8715	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R8716	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R8717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R8718	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8719	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8722	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R8723	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
R8724	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8751	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R8752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R8753	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R8754	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R8755	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J

## MAIN POWER P.W. BOARD ASS'Y (SFL-9054A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC9201	MIP2C20MSSCF	IC	
IC9301	LM393DR-X	IC	
IC9501	F9222L-F219	IC	
△IC9502	FA5500AN-W	IC	
△IC9551	UTCTL431-T	IC	
Q9001	2SC3928A/QR/-X	TRANSISTOR	
Q9002	2SC3928A/QR/-X	TRANSISTOR	
Q9501	2SK3522-01-F1	POWER MOS FET	
Q9502	2SC3928A/QR/-X	TRANSISTOR	
Q9503	2SC3928A/QR/-X	TRANSISTOR	
Q9504	UN2213-X	DIGI TRANSISTOR	
Q9505	UN2212-X	DIGI TRANSISTOR	
Q9506	UN2212-X	DIGI TRANSISTOR	
Q9507	2SB1188/QR/-W	TRANSISTOR	
Q9508	UN2212-X	DIGI TRANSISTOR	
Q9531	2SC3928A/QR/-X	TRANSISTOR	
Q9532	2SB1188/QR/-W	TRANSISTOR	
Q9533	UN2212-X	DIGI TRANSISTOR	
Q9534	UN2213-X	DIGI TRANSISTOR	
Q9535	UN2213-X	DIGI TRANSISTOR	
Q9536	2SA1530A/QR/-X	TRANSISTOR	
Q9537	2SA1530A/QR/-X	TRANSISTOR	
Q9551	UN2212-X	DIGI TRANSISTOR	
Q9552	UN2212-X	DIGI TRANSISTOR	
△D9001	D25XB60	BRIDGE DIODE	
D9002	MA111-X	SI DIODE	
D9003	MA111-X	SI DIODE	
D9202	MA8047-X	Z DIODE	
D9203	EG01C-T2	SI DIODE	
D9204	D1FL20U-X	SI DIODE	
D9205	UTCTL431-T	IC	
D9206	EC21QS10-X	SB DIODE	
D9208	D1FL20U-X	SI DIODE	
D9212	EM1A-LFF4	SI DIODE	
D9213	EM1A-LFF4	SI DIODE	
D9214	EM1A-LFF4	SI DIODE	
D9215	MA8330/M/-X	Z DIODE	
D9216	MA8330/M/-X	Z DIODE	
D9301	MA8091/M/-X	Z DIODE	
D9302	MA111-X	SI DIODE	
D9501	YG972S6R	SI DIODE	
D9502	D1FL20U-X	SI DIODE	
D9503	MA111-X	SI DIODE	
D9504	MA111-X	SI DIODE	
D9505	D1FL20U-X	SI DIODE	
D9506	MA111-X	SI DIODE	
D9507	MA8100/M/-X	Z DIODE	
D9508	MA111-X	SI DIODE	
D9531	D1FS4-X	SB DIODE	
D9532	MA111-X	SI DIODE	
D9533	UDZ55.6B-X	Z DIODE	1.5kΩ 1/10W J
D9534	SD883-04-X	IC	
D9535	PTZ27B-X	Z DIODE	
D9536	PTZ27B-X	Z DIODE	
D9537	1SS355W-X	DIODE	
D9550	FCH20A10	SB DIODE	
D9551	FCH20A10	SB DIODE	
D9552	FCH20A10	SB DIODE	
D9553	FCH20A10	SB DIODE	
△C9001	QFZ9072-105	MM CAPACITOR	1uF AC250V K
△C9002	QFZ9072-105	MM CAPACITOR	1uF AC250V K
△C9003	QCZ9071-152	C CAPACITOR	1500pF AC400V M



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
△C9004	QCZ9071-152	C CAPACITOR	1500pF AC400V M	R9510	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
△C9006	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M	R9511	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
△C9007	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M	R9512	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
△C9008	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M	R9513	NRS181J-824X	MG RESISTOR	820kΩ 1/8W J
△C9009	QCZ9082-222Z	C CAPACITOR	2200pF AC250V M	R9514	NRSA63D-183X	MG RESISTOR	18kΩ 1/16W D
C9204	QEZO709-106	E CAPACITOR	10uF 450V M	R9515	NRSA63D-274X	MG RESISTOR	270kΩ 1/16W D
C9205	QFP32JK-222	PP CAPACITOR	2200pF 630V K	R9516	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J
C9206	QEHR1HM-105Z	E CAPACITOR	1uF 50V M	R9517	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J
C9207	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9518	NRS181J-394X	MG RESISTOR	390kΩ 1/8W J
C9208	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R9519	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J
△C9209	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9520	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C9210	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9521	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C9211	QECR1CM-477Z	E CAPACITOR	470uF 16V M	R9522	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C9212	QEHR1AM-337Z	E CAPACITOR	330uF 10V M	R9523	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9219	QEHR1VM-107Z	E CAPACITOR	100uF 35V M	R9524	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9301	NEHM1HM-105X	E CAPACITOR	1uF 50V M	R9525	NRSA63J-824X	MG RESISTOR	820kΩ 1/16W J
C9302	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R9526	NRS12BJ-102W	MG RESISTOR	1kΩ 1/2W J
C9303	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R9527	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9304	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R9528	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C9501	QEZO739-337	E CAPACITOR	330uF	R9529	NRS12BJ-221W	MG RESISTOR	220Ω 1/2W J
C9502	QCZ0340-331	C CAPACITOR	330pF 2kV K	R9530	NRS12BJ-220W	MG RESISTOR	22Ω 1/2W J
C9503	QFZ0231-225	MPP CAPACITOR	2.2uF	R9531	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J
C9504	NCB31HK-222X	C CAPACITOR	2200pF 50V K	R9532	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C9505	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R9533	NRSA02J-180X	MG RESISTOR	18Ω 1/10W J
C9506	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	R9534	QRK126J-271X	UNF C RESISTOR	270Ω 1/2W J
C9507	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R9535	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J
C9508	QEHR1VM-476Z	E CAPACITOR	47uF 35V M	R9536	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R9537	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C9510	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9511	QEHR1HM-107Z	E CAPACITOR	100uF 50V M	R9539	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9512	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9540	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
C9531	NCB31HK-331X	C CAPACITOR	330pF 50V K	R9541	QRT02EJ-1R0X	MF RESISTOR	1Ω 2W J
C9532	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R9542	QRM059J-R22	MP RESISTOR	0.22Ω 5W J
C9533	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R9543	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J
C9534	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9544	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9535	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9545	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C9536	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R9547	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C9537	NCB31HK-331X	C CAPACITOR	330pF 50V K	R9548	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C9538	NCB11AK-106X	C CAPACITOR	10uF 10V K	R9549	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9539	QEHR1HM-226Z	E CAPACITOR	22uF 50V M	R9553	NRS12BJ-222W	MG RESISTOR	2.2kΩ 1/2W J
C9540	QFZ0230-563	MPP CAPACITOR	0.056uF	R9554	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C9541	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R9555	NRSA02J-103X	MG RESISTOR	10kΩ 1/10W J
△C9542	QCZ9071-102	C CAPACITOR	1000pF AC400V M	R9556	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D
C9551	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9557	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
C9552	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9558	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
C9553	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9559	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D
C9560	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9560	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C9561	QECQ1VM-128	E CAPACITOR	1200uF 35V M	R9561	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C9562	NCB11HK-474X	C CAPACITOR	0.47uF 50V K	R9568	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△R9001	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K	R9570	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R9002	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R9571	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9003	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R9572	NRSA02J-562X	MG RESISTOR	5.6kΩ 1/10W J
R9004	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R9574	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R9005	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R9575	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
△R9006	QRZ9058-8R2	FUSI RESISTOR	8.2Ω	L9201	QQL26AM-5R6Z	CHOKE COIL	5.6uH M
R9201	NRS12BJ-563W	MG RESISTOR	56kΩ 1/2W J	L9501	QQR1468-001	CHOKE COIL	
R9202	NRS12BJ-0R0W	MG RESISTOR	0Ω 1/2W J	L9502	QQR1513-001	CHOKE COIL	
R9203	NRS12BJ-474W	MG RESISTOR	470kΩ 1/2W J	△T9201	QQS0363-002	SW TRANSF	
R9204	NRS12BJ-333W	MG RESISTOR	33kΩ 1/2W J	△T9501	QQS0347-003	SW TRANSF	
R9205	QRZ0216-4R7	UNF WW RESISTOR	4.7Ω 7W K	△T9502	QQS0347-003	SW TRANSF	
R9206	NRS12BJ-104W	MG RESISTOR	100kΩ 1/2W J	△CP9201	QMFZ052-2R0-E	FUSE	2A AC250V
R9207	QRE121J-220Y	C RESISTOR	22Ω 1/2W J	△CP9501	QMFZ043-2R0Z-J1	FUSE	2A AC250V
R9208	NRSA63J-394X	MG RESISTOR	390kΩ 1/16W J	△F9001	QMF5AD2-6R3-J1	FUSE	6.3A AC250V
R9209	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	K9201	NQR0499-001X	FERRITE BEADS	
△R9210	QRZ9046-685Z	C RESISTOR	6.8MΩ 1/2W K	K9502	QQR0621-002Z	FERRITE BEADS	
R9211	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	K9503	QQR0621-002Z	FERRITE BEADS	
R9212	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	K9552	NQR0499-002X	FERRITE BEADS	
R9213	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	K9553	NQR0499-002X	FERRITE BEADS	
R9214	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K9554	NQR0499-002X	FERRITE BEADS	
R9215	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9555	NQR0499-002X	FERRITE BEADS	
R9216	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	K9556	NQR0499-002X	FERRITE BEADS	
R9217	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	K9557	NQR0499-002X	FERRITE BEADS	
R9219	QRE121J-220Y	C RESISTOR	22Ω 1/2W J	△LF9001	QQR1655-001	LINE FILTER	
R9230	NRS12BJ-104W	MG RESISTOR	100kΩ 1/2W J	△LF9002	QQR1281-005	LINE FILTER	
R9301	NRS12BJ-332W	MG RESISTOR	3.3kΩ 1/2W J	△PC9201	PS2581AL2/QW/-W	PHOTO COUPLER	
R9302	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	△PC9202	PS2581AL2/QW/-W	PHOTO COUPLER	
R9303	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	△PC9501	PS2581AL2/QW/-W	PHOTO COUPLER	
R9304	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	△PC9502	PS2581AL2/QW/-W	PHOTO COUPLER	
R9305	NRSA63D-273X	MG RESISTOR	27kΩ 1/16W D	△PC9503	PS2581AL2/QW/-W	PHOTO COUPLER	
R9306	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D	△RY9001	QSK0162-001	RELAY	
R9501	QRM059J-R22	MP RESISTOR	0.22Ω 5W J	△RY9002	QSK0162-001	RELAY	
R9502	QRM059J-R22	MP RESISTOR	0.22Ω 5W J	△VA9001	QAF0060-621	VARISTOR	620V
R9503	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J				
R9504	NRS181J-474X	MG RESISTOR	470kΩ 1/8W J				
R9505	NRS181J-334X	MG RESISTOR	330kΩ 1/8W J				
R9506	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D				
R9507	NRS12BJ-223W	MG RESISTOR	22kΩ 1/2W J				
R9508	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R9509	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				



## DC-DC P.W. BOARD ASS'Y (SFL-9164A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC9601	MP2363DN-X	IC		
IC9602	AL1014-X	IC		
IC9851	PQ090DNA1Z-X	IC		
IC9852	PQ090DNA1Z-X	IC		
Q9601	2SC3928A/QR/-X	TRANSISTOR		
Q9651	2SC3928A/QR/-X	TRANSISTOR		
Q9652	FDS9435A-X	POWER MOS FET		
Q9653	2SC3928A/QR/-X	TRANSISTOR		
Q9654	2SC3928A/QR/-X	TRANSISTOR		
D9601	EC30HA04-X	SB DIODE		
D9602	MA111-X	SI DIODE		
D9603	MA8030/H/-X	Z DIODE		
D9604	PTZ6.8B-X	Z DIODE		
D9605	EC30HA04-X	SB DIODE		
D9606	EC30HA04-X	SB DIODE		
D9652	CMS05-W	SB DIODE		
D9653	CMS05-W	SB DIODE		
D9654	PTZ6.8B-X	Z DIODE		
D9655	MA111-X	SI DIODE		
C9601	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K	
C9602	NCJ41HK-335X-U	C CAPACITOR	3.3uF 50V K	
C9603	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9604	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9605	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C9606	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9607	NCB31HK-222X	C CAPACITOR	2200pF 50V K	
C9608	NCB31HK-332X	C CAPACITOR	3300pF 50V K	
C9610	NEHM1HM-105X	E CAPACITOR	1uF 50V M	
C9611	QEHR0JM-108Z	E CAPACITOR	1000uF 6.3V M	
C9651	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9652	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9653	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C9654	NDC31HJ-270X	C CAPACITOR	27pF 50V J	
C9655	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9656	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	
C9658	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9660	NEX60JM-227X	E CAPACITOR	220uF 6.3V M	
C9661	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	
C9662	NCJ11HK-105X-U	C CAPACITOR	1uF 50V K	
C9663	NEX60JM-227X	E CAPACITOR	220uF 6.3V M	
C9851	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9852	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9853	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9854	NEHM1EM-336X	E CAPACITOR	33uF 25V M	
C9855	NCB21EK-334X	C CAPACITOR	0.33uF 25V K	
C9856	NCB21EK-334X	C CAPACITOR	0.33uF 25V K	
C9903	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C9904	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C9912	NBZ0017-106X	SP E CAPACITOR	10uF 25V M	
C9972	NEHM0JM-107X	E CAPACITOR	100uF 6.3V M	
R9602	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9603	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	
R9604	NRSA63D-563X	MG RESISTOR	56kΩ 1/16W D	
R9605	NRSA63D-334X	MG RESISTOR	330kΩ 1/16W D	
R9606	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	
R9607	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9608	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9609	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R9610	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R9652	NRZ0096-R020X	MP RESISTOR	0.02Ω	
R9653	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9654	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	
R9655	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	
R9656	NRSA63D-512X	MG RESISTOR	5.1kΩ 1/16W D	
R9657	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R9658	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	
R9659	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R9661	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R9662	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9663	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9664	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	
R9668	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9669	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R9670	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R9688	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R9901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9903	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9909	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	
R9918	NRS12BJ-221W	MG RESISTOR	220Ω 1/2W J	
R9924	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
L9602	NQLC8CM-150X	COIL	15uH M	
L9652	NQL63EM-150X	COIL	15uH M	
L9972	NQR0562-003X	CHOKE COIL		

△Ref No.	Part No.	Part Name	Description	Local
K9651	NQR0413-001X	FERRITE BEADS		
K9652	NQR0413-001X	FERRITE BEADS		
K9653	NQR0413-001X	FERRITE BEADS		

## SUB POWER P.W. BOARD ASS'Y (SFL-9712A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC9001	STR-W6765-F5	IC		
IC9051	TL431/A-T	IC		
D9001	MTZJ33B-T2	Z DIODE		
D9004	FR105GT-T3	SI DIODE		
D9005	1SS133-T2	SI DIODE		
D9006	FR105GT-T3	SI DIODE		
D9008	SARS01-T2	FR DIODE		
D9009	SARS01-T2	FR DIODE		
D9011	1SS133-T2	SI DIODE		
D9021	D2SBA60	BRIDGE DIODE		
D9022	FR105GT-T3	SI DIODE		
D9023	1SS133-T2	SI DIODE		
D9051	RU3AM-LFC4	SI DIODE		
D9053	FMX-22S	SI DIODE		
D9054	FR105GT-T3	SI DIODE		
D9055	MTZJ33B-T2	Z DIODE		
D9056	RK14-T3	SB DIODE		
D9071	RU3AM-LFC4	SI DIODE		
C9001	QEZO802-687	E CAPACITOR	680uF	
C9002	QFP32JK-332	PP CAPACITOR	3300pF 630V K	
C9003	QCZ0340-102	C CAPACITOR	1000pF 2kV K	
C9004	QCS31HJ-471Z	C CAPACITOR	470pF 50V J	
C9006	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C9008	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C9010	QEHR1HM-335Z	E CAPACITOR	3.3uF 50V M	
C9011	QEHR1HM-226Z	E CAPACITOR	22uF 50V M	
C9012	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
△C9024	QFZ9075-224	MPP CAPACITOR	0.22uF AC275V M	
C9051	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9054	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9055	QEHR2AM-106Z	E CAPACITOR	10uF 100V M	
C9057	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C9060	QECQ1EM-188	E CAPACITOR	1800uF 25V M	
C9061	QECQ1CM-128	E CAPACITOR	1200uF 16V M	
C9072	QECR1EM-687Z	E CAPACITOR	680uF 25V M	
C9073	QEHR1HM-105Z	E CAPACITOR	1uF 50V M	
C9076	QEHR1HM-106Z	E CAPACITOR	10uF 50V M	
C9078	QFN31HJ-222Z	M CAPACITOR	2200pF 50V J	
△C9903	QCZ9079-471	C CAPACITOR	470pF AC250V K	
R9001	QRK126J-221X	UNF C RESISTOR	220Ω 1/2W J	
R9002	QRX01GJ-R39	MF RESISTOR	0.39Ω 1W J	
R9003	QRX01GJ-R82	MF RESISTOR	0.82Ω 1W J	
R9004	QRL029J-473	OMF RESISTOR	47kΩ 2W J	
R9006	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J	
R9008	QRE121J-564Y	C RESISTOR	560kΩ 1/2W J	
R9009	QRL039J-220	OMF RESISTOR	22Ω 3W J	
R9010	QRE121J-101Y	C RESISTOR	100Ω 1/2W J	
R9011	QRE141J-332Y	C RESISTOR	3.3kΩ 1/4W J	
R9012	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9021	QRF074K-3R3	UNF VVW RESISTOR	3.3Ω 7W K	
R9022	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J	
R9023	QRE121J-224Y	C RESISTOR	220kΩ 1/2W J	
R9024	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R9050	QRG01GJ-821	OMF RESISTOR	820Ω 1W J	
R9051	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9053	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J	
R9055	QRA14CF-1802Y	CMF RESISTOR	18kΩ 1/4W F	
R9057	QRA14CF-3301Y	CMF RESISTOR	3.3kΩ 1/4W F	
R9059	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R9060	QRL029J-152	OMF RESISTOR	1.5kΩ 2W J	
R9071	QRG01GJ-821	OMF RESISTOR	820Ω 1W J	
L9056	QQL01BK-101Z	PEAKING COIL	100uH K	
△T9001	QQS0341-001	SW TRANSF		
CN900D	WJK0200-002A-E	E-SI C WIRE C-B		
△CP9001	QMFZ043-5R0Z-J1	FUSE	5A AC250V	
△CP9071	QMFZ034-5R0Z-J1	FUSE	5A 125V	
△CP9072	QMFZ034-5R0Z-J1	FUSE	5A 125V	
△CP9073	ICP-N50-T	IC PROTECTOR	2.0A	
△CP9074	ICP-N70-T	IC PROTECTOR	2.5A	
K9051	QQR0621-002Z	FERRITE BEADS		
K9071	QQR0621-002Z	FERRITE BEADS		
K9075	QQR0621-002Z	FERRITE BEADS		
△LF9001	QQR1085-003	LINE FILTER		



△Ref No.	Part No.	Part Name	Description Local
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△PC9001 PS2581AL1/QW/ PHOTO COUPLER

## DIGITAL P.W. BOARD ASS'Y (SFL0D182A-M2)

△Ref No.	Part No.	Part Name	Description Local
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IC6001 JCC5068 IC  
IC6002 SN74LVC1G08V-X IC  
IC6011 SN74CBQ16211G-X IC  
IC6012 SN74CBQ3306AU-X IC  
IC6013 SN74CBQ3306AU-X IC  
IC6101 EDD1232AAFA-6B IC  
IC6102 LP2996MR-X IC  
IC6250 UPC5702GS-027-X IC  
IC6251 R1170H331B-X IC  
IC6501 THC63LVD1023 IC  
IC6724 S-80928CLNB-G-W IC  
IC6901 R1141Q331B-X IC  
IC7033 CD74HC4094PW-X IC  
IC7036 ADC081S021CIS-X IC  
IC7201 39VF800A7IEKD83 IC(MICRO C ROM)  
IC7203 HY57V161610ETP7 IC  
IC7204 S-80928CLNB-G-W IC  
IC7601 M306V7MG-155FP IC(MCU)  
IC7602 ATF16-46FH97S IC(DIGITAL)  
IC7603 SN74AHCT1G08V-X IC  
IC7604 SN74LVC1G04V-X IC  
IC7605 MM1673XN-X IC  
IC7606 MM1673XN-X IC  
IC7607 ICL3221CAZ-X IC  
IC9001 MP2263DN-C053-X IC  
IC9101 MM1662FT-X IC  
IC9201 MP2263DN-C053-X IC  
IC9301 MM1701CH-X IC

Q6201 2SA1530A/QR/-X TRANSISTOR  
Q6202 2SA1530A/QR/-X TRANSISTOR  
Q6203 2SA1022/BC/-X TRANSISTOR  
Q6204 2SA1022/BC/-X TRANSISTOR  
Q6205 2SA1022/BC/-X TRANSISTOR  
Q6206 2SA1022/BC/-X TRANSISTOR  
Q6207 2SC3837K/NP/-X TRANSISTOR  
Q6208 2SC3837K/NP/-X TRANSISTOR  
Q6209 2SC3837K/NP/-X TRANSISTOR  
Q6210 2SC3837K/NP/-X TRANSISTOR  
Q6211 2SC3837K/NP/-X TRANSISTOR  
Q6212 2SC3837K/NP/-X TRANSISTOR  
Q6213 2SC3837K/NP/-X TRANSISTOR  
Q6214 2SC3837K/NP/-X TRANSISTOR  
Q6250 2SC3928A/QR/-X TRANSISTOR  
Q6251 2SC3928A/QR/-X TRANSISTOR  
Q6501 2SC3928A/QR/-X TRANSISTOR  
Q7030 RT1N441C-X TRANSISTOR  
Q7032 RT1P441C-X DIGI TRANSISTOR  
Q7033 RT1P441C-X DIGI TRANSISTOR  
Q7034 RT1P441C-X DIGI TRANSISTOR  
Q7035 RT1P441C-X DIGI TRANSISTOR  
Q7501 RT1N441C-X TRANSISTOR  
Q9501 RT1N441C-X TRANSISTOR  
Q9502 2SC3928A/QR/-X TRANSISTOR  
Q9503 2SC3928A/QR/-X TRANSISTOR

D6052 1SS355W-X DIODE  
D6502 1SS355W-X DIODE  
D7502 1SS355W-X DIODE  
D7604 MA8120-X Z DIODE  
D7605 MA8120-X Z DIODE  
D7606 MA8120-X Z DIODE  
D7607 MA8120-X Z DIODE  
D9001 EC30HA03L-X SB DIODE  
D9002 EC30HA03L-X SB DIODE  
D9003 PTZ3.9B-X Z DIODE  
D9201 EC30HA03L-X SB DIODE  
D9202 EC30HA03L-X SB DIODE  
D9203 PTZ3.9B-X Z DIODE  
D9204 1SS355W-X DIODE  
D9501 1SS355W-X DIODE  
D9502 1SS355W-X DIODE

C6002 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6031 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6051 NCB21HK-104X C CAPACITOR 0.1uF 50V K  
C6052 NDCJ41CK-226X-U C CAPACITOR 22mF 16V K  
C6053 NDC31HJ-100X C CAPACITOR 10pF 50V J  
C6054 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6055 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6101 NCB30JK-225X C CAPACITOR 2.2uF 6.3V K

△Ref No.	Part No.	Part Name	Description Local
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C6103 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6107 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6109 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6111 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6112 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6113 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6114 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6116 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6117 NCB30JK-225X C CAPACITOR 2.2uF 6.3V K  
C6118 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6119 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6121 NCB31AK-474X C CAPACITOR 0.47uF 10V K  
C6122 NEHL0JM-107X E CAPACITOR 100uF 6.3V M  
C6123 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6124 NEHL0JM-107X E CAPACITOR 100uF 6.3V M  
C6125 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6126 NCB30JK-225X C CAPACITOR 2.2uF 6.3V K  
C6128 NCB30JK-225X C CAPACITOR 2.2uF 6.3V K  
C6130 NCB30JK-225X C CAPACITOR 2.2uF 6.3V K  
C6132 NEHL1EM-226X E CAPACITOR 22uF 25V M  
C6133 NCB31CK-154X C CAPACITOR 0.15uF 16V K  
C6134 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6135 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6139 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6205 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6211 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6217 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6218 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6219 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6220 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6227 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6228 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6229 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6236 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6237 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6238 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6239 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6240 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6241 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6242 NCB31AK-105X C CAPACITOR 1uF 10V K  
C6243 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6244 NCB31AK-105X C CAPACITOR 1uF 10V K  
C6245 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6246 NCB31AK-105X C CAPACITOR 1uF 10V K  
C6247 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6248 NCB31AK-105X C CAPACITOR 1uF 10V K  
C6249 NCB31AK-105X C CAPACITOR 1uF 10V K  
C6250 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6251 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6252 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6253 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6254 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6255 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6260 NCB21AK-225X C CAPACITOR 2.2uF 10V K  
C6261 NCB21AK-225X C CAPACITOR 2.2uF 10V K  
C6262 NCB21AK-225X C CAPACITOR 2.2uF 10V K  
C6263 NCB21AK-225X C CAPACITOR 2.2uF 10V K  
C6268 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6270 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6271 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6272 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6273 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6274 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6276 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6277 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6278 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6279 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6280 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6282 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6283 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6284 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6285 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6286 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6288 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6289 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6291 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6293 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6294 NBZ0007-107X SP E CAPACITOR 100uF 4V M  
C6295 NBZ0007-107X SP E CAPACITOR 100uF 4V M  
C6296 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6297 NCB11AK-106X C CAPACITOR 10uF 10V K  
C6299 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6300 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6301 NCB31CK-104X C CAPACITOR 0.1uF 16V K  
C6501 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z  
C6502 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z  
C6503 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z  
C6504 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z  
C6505 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z  
C6506 NCF31CZ-104X C CAPACITOR 0.1uF 16V Z



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△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7633	NDC31HJ-151X	C CAPACITOR	150pF 50V J	R6224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9001	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R6227	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R6228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9003	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R6229	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6230	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6231	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9006	NDC31HJ-120X	C CAPACITOR	12pF 50V J	R6232	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6234	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C9101	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6235	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R6236	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9201	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R6237	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R6238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6239	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6240	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9206	NDC31HJ-120X	C CAPACITOR	12pF 50V J	R6241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9207	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R6242	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9208	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6243	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C9209	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9211	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R6245	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9302	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6246	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9303	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6247	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9304	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6248	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6249	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C9501	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9502	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6253	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6254	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6255	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6256	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6009	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6258	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6259	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6260	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6261	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6020	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6262	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6055	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	R6263	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6057	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6264	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6058	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6265	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6059	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R6266	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R6060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6267	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6268	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6064	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6269	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6065	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6270	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6066	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6271	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6068	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	R6273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6274	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6275	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6276	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6277	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6279	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6101	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6280	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6102	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6281	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6103	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6282	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6283	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6284	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6285	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6107	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R6286	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6108	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R6287	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6288	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6110	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6289	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6111	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6290	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6112	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6291	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6113	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6292	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6114	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6115	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6116	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6300	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6117	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6302	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6118	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6119	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6332	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6120	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6121	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6338	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6122	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R6339	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6127	NRSA63J-1R5X	MG RESISTOR	1.5Ω 1/16W J	R6501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6503	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6505	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6507	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6511	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6205	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R6514	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6532	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6534	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6538	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6539	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R6216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6541	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6217	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6551	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6220	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R6552	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6553	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
				R6554	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J



(No.YA432)3-19



△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R9203	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D	L9204	NQR0562-014X	CHOKE COIL		
R9205	NRSA63D-103X	MG RESISTOR	10kΩ	1/16W D	L9306	NQR0351-003X	FERRITE BEADS		
R9206	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	L9307	NQR0351-003X	FERRITE BEADS		
R9207	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	CN001	QGF0508C2-50W	CONNECTOR	FFC/FPC (1-50)	
R9209	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	CN002	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
R9302	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	CN110	QGB0603L1-B0	CONNECTOR	B-B (1-110)	
R9306	NCB21EK-102X	C CAPACITOR	1000pF	25V K	J7601	QNZ0587-001	D CONNECTOR	RS-232C	
R9308	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	J8501	NNZ0117-001	CONNECTOR	DIGITAL IN-1	
R9501	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	J8502	NNZ0117-001	CONNECTOR	DIGITAL IN-2	
R9502	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6052	NQR0489-002X	FERRITE BEADS		
R9503	NRSA63J-393X	MG RESISTOR	39kΩ	1/16W J	K6250	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9504	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6268	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9505	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K6271	NQR0499-001X	FERRITE BEADS		
R9506	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6272	NQR0499-001X	FERRITE BEADS		
R9507	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K6274	NQR0499-001X	FERRITE BEADS		
R9508	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6921	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9509	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K7032	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9510	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	K7033	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
RA6001	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7034	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
RA6002	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	K7202	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
RA6007	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7211	NQR0499-002X	FERRITE BEADS		
RA6008	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7501	NQR0413-002X	FERRITE BEADS		
RA6009	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	K7504	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
RA6010	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	K7601	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
RA6011	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	LC6225	NQR0470-007X	EMI FILTER	2200pF 50V	
RA6101	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC6226	NQR0470-007X	EMI FILTER	2200pF 50V	
RA6102	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	LC6501	NQR0479-001X	EMI FILTER		
RA6103	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC7505	NQR0483-005X	EMI FILTER	100uF 25V Z	
RA6104	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J	LC9301	NQR0470-003X	EMI FILTER	100pF 50V	
RA6105	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	LC9303	NQR0483-005X	EMI FILTER	100uF 25V Z	
RA6106	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC9305	NQR0483-005X	EMI FILTER	100uF 25V Z	
RA6107	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	LC9307	NQR0483-005X	EMI FILTER	100uF 25V Z	
RA6108	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	X6250	NAX0580-001X	CXO	27.0000MHz	
RA6109	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4	X7001	NAX0669-001X	C RESONATOR	6.000MHz	
RA6110	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J	X7601	NAX0613-001X	C RESONATOR	16.000MHz	
RA6111	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4	<b>ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2101B-M2)</b>				
RA6112	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4	△Ref No.	Part No.	Part Name	Description	Local
RA6113	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J	△MD001	SSD-2101B-M2	ATSC TUNER MODULE PWB		
RA6114	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4					
RA6115	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6116	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6501	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6502	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6503	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6504	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6505	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6506	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6541	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6542	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6543	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6544	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6545	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6546	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA7202	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7203	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7204	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7205	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7503	NQR0271-004X	EMI FILTER							
RA7601	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7602	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7603	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7605	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7606	NRZ0034-101W	NET RESISTOR	100Ω	1/32W J x4					
L6051	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J					
L6101	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J					
L6102	NQL79GM-220X	COIL	22uH M						
L6103	NQL79GM-220X	COIL	22uH M						
L6115	NQR0499-001X	FERRITE BEADS							
L6254	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J					
L6265	NQR0499-001X	FERRITE BEADS							
L6266	NQR0499-001X	FERRITE BEADS							
L6511	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6512	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6513	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6514	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6515	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6516	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
L6531	NQR0199-007X	FERRITE BEADS							
L6701	NQR0413-003X	FERRITE BEADS							
L6911	NQR0499-001X	FERRITE BEADS							
L6912	NQR0499-001X	FERRITE BEADS							
L6922	NQL79GM-220X	COIL	22uH M						
L6924	NQL79GM-220X	COIL	22uH M						
L6925	NQL79GM-220X	COIL	22uH M						
L6931	NQR0499-001X	FERRITE BEADS							
L7501	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
L7502	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
L9001	NQLC8CM-150X	COIL	15uH M						
L9201	NQLC8CM-150X	COIL	15uH M						



# PRINTED WIRING BOARD PARTS LIST [LT-46FN97/s]

## ANALOG P.W. BOARD ASS'Y (SFL-1314A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC101	R2S11004FT	IC		
IC102	R2S11003FT	IC		
IC103	MM1510XN-X	IC		
IC104	MM1510XN-X	IC		
IC105	MM1510XN-X	IC		
IC106	CD4066BNS-X	IC		
IC381	M62320FP-X	IC		
IC501	RC4558D-X	IC		
IC502	AK4554VT-X	IC		
IC551	JCC5067	IC		
IC552	PQ2L3152MS-X	IC		
IC601	NJW1182FP1	IC		
IC606	M62320FP-X	IC		
IC661	MX3000CS-X	IC		
IC751	BH3547F-X	IC		
IC902	BA33BC0FP-X	IC		
IC3101	CXA2205Q-X	IC		
Q101	RT1N441C-X	TRANSISTOR		
Q102	RT1N441C-X	TRANSISTOR		
Q106	SSM3K17FU-X	MOS FET		
Q107	SSM3K17FU-X	MOS FET		
Q108	2SC1623A/5-6/-X	TRANSISTOR		
Q109	2SA1022/BC/-X	TRANSISTOR		
Q110	2SA1022/BC/-X	TRANSISTOR		
Q111	2SA1022/BC/-X	TRANSISTOR		
Q112	2SA1022/BC/-X	TRANSISTOR		
Q113	2SC1623A/5-6/-X	TRANSISTOR		
Q281	2SA812A/5-6/-X	TRANSISTOR		
Q431	RT4N430C-X	DIGI TRANSISTOR		
Q432	RT4N430C-X	DIGI TRANSISTOR		
Q433	RT1P440C-X	DIGI TRANSISTOR		
Q501	2SC3928A/QR/-X	TRANSISTOR		
Q502	2SC3928A/QR/-X	TRANSISTOR		
Q503	2SC3928A/QR/-X	TRANSISTOR		
Q553	2SC3928A/QR/-X	TRANSISTOR		
Q614	2SA1530A/QR/-X	TRANSISTOR		
Q621	2SA1530A/QR/-X	TRANSISTOR		
Q622	2SC3928A/QR/-X	TRANSISTOR		
Q751	2SA1530A/QR/-X	TRANSISTOR		
Q752	UN2226-X	DIGI TRANSISTOR		
Q3001	2SA1530A/QR/-X	TRANSISTOR		
Q3002	2SC3928A/QR/-X	TRANSISTOR		
D105	1SS355W-X	DIODE		
D281	1SS355W-X	DIODE		
D282	1SS355W-X	DIODE		
D283	1SS355W-X	DIODE		
D401	UDZW10B-X	Z DIODE		
D402	UDZW10B-X	Z DIODE		
D403	UDZW10B-X	Z DIODE		
D404	UDZW10B-X	Z DIODE		
D405	UDZW10B-X	Z DIODE		
D406	UDZW10B-X	Z DIODE		
D407	UDZW10B-X	Z DIODE		
D408	UDZW10B-X	Z DIODE		
D409	UDZW10B-X	Z DIODE		
D411	UDZW10B-X	Z DIODE		
D412	UDZW10B-X	Z DIODE		
D413	UDZW10B-X	Z DIODE		
D414	UDZW10B-X	Z DIODE		
D415	UDZW10B-X	Z DIODE		
D416	UDZW10B-X	Z DIODE		
D420	UDZW10B-X	Z DIODE		
D421	UDZW10B-X	Z DIODE		
D422	UDZW10B-X	Z DIODE		
D423	UDZW10B-X	Z DIODE		
D424	UDZW10B-X	Z DIODE		
D425	UDZW10B-X	Z DIODE		
D427	UDZW10B-X	Z DIODE		
D428	UDZW10B-X	Z DIODE		
D431	UDZW10B-X	Z DIODE		
D432	UDZW10B-X	Z DIODE		
D461	UDZW10B-X	Z DIODE		
D462	UDZW10B-X	Z DIODE		
D463	UDZW10B-X	Z DIODE		
D464	UDZW10B-X	Z DIODE		
D465	UDZW10B-X	Z DIODE		
D466	UDZW10B-X	Z DIODE		
D491	UDZW3.3B-X	Z DIODE		
D492	S9648	PHOTO CONDUCTOR		
D501	1SS355W-X	DIODE		
D502	1SS355W-X	DIODE		
D605	1SS355W-X	DIODE		
D606	1SS355W-X	DIODE		
D607	1SS355W-X	DIODE		
D608	1SS355W-X	DIODE		
D615	1SS355W-X	DIODE		
D621	1SS355W-X	DIODE		
D622	1SS355W-X	DIODE		
D751	1SS355W-X	DIODE		
D752	1SS355W-X	DIODE		
C101	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C102	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C106	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C107	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C108	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C116	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C117	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C118	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C119	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C120	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C121	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C122	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C124	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C125	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C126	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C127	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C128	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C129	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C130	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C131	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C132	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C133	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C134	NCB31CK-105X	C CAPACITOR	1uF 16V K	
C135	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C136	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C137	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C138	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C139	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C141	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C142	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C143	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C144	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C145	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C146	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
C147	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C148	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C149	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C150	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
C151	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C152	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C153	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C154	NEHL1AM-107X	E CAPACITOR	100uF 10V M	
C155	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C156	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C157	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C158	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C161	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C166	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C167	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C168	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C169	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C170	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C171	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C172	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C173	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C174	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C175	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C176	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C177	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C178	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C179	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C180	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C181	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C182	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C183	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C184	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C185	NDC31HJ-820X	C CAPACITOR	82pF 50V J	
C187	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C189	NEHL1CM-106X	E CAPACITOR	10uF 16V M	
C199	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C200	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C201	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C202	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C204	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C206	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	
C207	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C208	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C209	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C572	NCB31CK-105X	C CAPACITOR	1uF 16V K
C210	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C573	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M
C211	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C574	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C261	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C575	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C262	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C576	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C263	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C577	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C264	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C578	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C281	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C579	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C381	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C612	NEHL1CM-107X	E CAPACITOR	100uF 16V M
C382	NDC31HJ-680X	C CAPACITOR	68pF 50V J	C614	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C383	NCB31AK-105X	C CAPACITOR	1uF 10V K	C615	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M
C401	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C616	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C402	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C617	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C403	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C623	NCB21CK-184X	C CAPACITOR	0.18uF 16V K
C404	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C624	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C405	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C625	NCB31HK-183X	C CAPACITOR	0.018uF 50V K
C406	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C628	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
C407	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C629	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C408	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C630	NCB21CK-184X	C CAPACITOR	0.18uF 16V K
C409	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C410	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C633	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C411	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C634	NCB31HK-822X	C CAPACITOR	8200pF 50V K
C412	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C635	NCB31HK-681X	C CAPACITOR	680pF 50V K
C413	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C636	NCB31HK-681X	C CAPACITOR	680pF 50V K
C417	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C638	NCB31EK-223X	C CAPACITOR	0.022uF 25V K
C418	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C639	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C419	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C640	NCB31CK-105X	C CAPACITOR	1uF 16V K
C420	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C641	NCB31CK-105X	C CAPACITOR	1uF 16V K
C421	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C642	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C422	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C644	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C424	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C646	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C425	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C647	NCB31CK-105X	C CAPACITOR	1uF 16V K
C431	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C648	NCB31CK-105X	C CAPACITOR	1uF 16V K
C432	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	C649	NCB31CK-105X	C CAPACITOR	1uF 16V K
C433	NCB11CK-105X	C CAPACITOR	1uF 16V K	C650	NCB31CK-105X	C CAPACITOR	1uF 16V K
C461	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C651	NCB31CK-105X	C CAPACITOR	1uF 16V K
C462	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C653	NCB31EK-223X	C CAPACITOR	0.022uF 25V K
C463	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C654	NCB31CK-473X	C CAPACITOR	0.047uF 16V K
C464	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C655	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C465	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C657	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C466	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	C659	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M
C468	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C660	NCB31CK-105X	C CAPACITOR	1uF 16V K
C469	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C661	NCB31CK-105X	C CAPACITOR	1uF 16V K
C491	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C662	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C492	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C663	NCB31CK-105X	C CAPACITOR	1uF 16V K
C493	NEHL1CM-107X	E CAPACITOR	100uF 16V M	C664	NCB31CK-105X	C CAPACITOR	1uF 16V K
C494	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C665	NCB31CK-105X	C CAPACITOR	1uF 16V K
C501	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C666	NCB11AK-106X	C CAPACITOR	10uF 10V K
C502	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C667	NCB31CK-105X	C CAPACITOR	1uF 16V K
C503	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C668	NCB31CK-105X	C CAPACITOR	1uF 16V K
C504	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C669	NCB31CK-105X	C CAPACITOR	1uF 16V K
C505	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C670	NCB31CK-105X	C CAPACITOR	1uF 16V K
C506	NCB31HK-822X	C CAPACITOR	8200pF 50V K	C671	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C507	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C672	NCB21AK-225X	C CAPACITOR	2.2uF 10V K
C508	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C673	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C509	NEHL1HM-105X	E CAPACITOR	1uF 50V M	C674	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C510	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C675	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C511	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C676	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C512	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C677	NCB31CK-105X	C CAPACITOR	1uF 16V K
C513	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C678	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C514	NENA1CM-475X	BP E CAPACITOR	4.7uF 16V M	C679	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C515	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C680	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C516	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C681	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C517	NEHL1EM-475X	E CAPACITOR	4.7uF 25V M	C682	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C518	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C685	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C519	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C686	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C520	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C687	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C531	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C688	NDC31HJ-680X	C CAPACITOR	68pF 50V J
C532	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C716	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C551	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C717	NCB31AK-105X	C CAPACITOR	1uF 10V K
C552	NCB31HK-102X	C CAPACITOR	1000pF 50V K	C751	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C553	NEHL1CM-476X	E CAPACITOR	47uF 16V M	C752	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C554	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C753	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C555	NEHL1AM-107X	E CAPACITOR	100uF 10V M	C754	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C556	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C755	NEHL0GM-227X	E CAPACITOR	220uF 4V M
C557	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C756	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C558	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C757	NEHL1HM-105X	E CAPACITOR	1uF 50V M
C559	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C758	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C560	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C759	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C561	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C760	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C562	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C761	NEHL1AM-107X	E CAPACITOR	100uF 10V M
C563	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C904	NCB11AK-106X	C CAPACITOR	10uF 10V K
C564	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C905	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C565	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
C566	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C913	NEX51CM-335X	E CAPACITOR	3.3uF 16V M
C567	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C914	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C568	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C920	NEX50JM-156X	E CAPACITOR	15uF 6.3V M
C569	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C3001	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C570	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	C3002	NEHL1HM-106X	E CAPACITOR	10uF 50V M
C571	NEHL0JM-226X	E CAPACITOR	22uF 6.3V M	C3005	NCB11AK-106X	C CAPACITOR	10uF 10V K



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C3006	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R225	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C3007	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R228	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3008	NEHL1AM-107X	E CAPACITOR	100uF 10V M	R231	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
C3106	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R232	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C3107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R237	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3108	NCB11AK-106X	C CAPACITOR	10uF 10V K	R238	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3109	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	R239	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R241	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3111	NCB11AK-106X	C CAPACITOR	10uF 10V K	R243	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3112	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R245	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3113	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R246	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3114	NCB11AK-106X	C CAPACITOR	10uF 10V K	R247	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R249	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3116	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3117	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R253	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3118	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R255	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3119	NCB21CK-105X	C CAPACITOR	1uF 16V K	R257	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3120	NCB11AK-106X	C CAPACITOR	10uF 10V K	R259	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3121	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R260	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3122	NCB11AK-335X	C CAPACITOR	3.3uF 10V K	R261	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C3123	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R262	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3124	NCB31HK-272X	C CAPACITOR	2700pF 50V K	R263	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3125	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3126	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R265	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3127	NCB31HK-562X	C CAPACITOR	5600pF 50V K	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3128	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	R267	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C3129	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R280	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3130	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R284	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C3131	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R286	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C3132	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R288	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3133	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R289	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3134	NCB11AK-106X	C CAPACITOR	10uF 10V K	R293	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J
C3135	NCB11AK-475X	C CAPACITOR	4.7uF 10V K	R294	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3136	NCB21CK-105X	C CAPACITOR	1uF 16V K	R295	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3137	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R296	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3155	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R297	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C3156	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R300	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R101	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R301	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R102	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R302	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R103	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R303	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R104	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R304	NCB31HK-102X	C CAPACITOR	1000pF 50V K
R105	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R382	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R384	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R110	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R390	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R112	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R391	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R120	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R402	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R122	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R403	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R140	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R404	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R141	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R405	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R142	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R406	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R143	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R407	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R144	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R408	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R145	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R410	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R146	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R411	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R147	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R412	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R150	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R413	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R153	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R414	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R154	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R418	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R157	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R419	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R158	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R420	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R159	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R421	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R160	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R422	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R161	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R423	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R164	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R426	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R165	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R427	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R166	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R431	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R167	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R433	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R168	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R434	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R169	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R435	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R181	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R183	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R437	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R184	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R438	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R439	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R188	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R440	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R194	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R441	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R195	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R442	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R197	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R443	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R198	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R444	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R461	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R464	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R206	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R467	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R207	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R475	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R219	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R476	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R491	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R221	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R501	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R223	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R502	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R224	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
				R504	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J



△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R505	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R694	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R695	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R507	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R696	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R508	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R700	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R509	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R510	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R511	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R512	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R513	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R711	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R712	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R515	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R713	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R516	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R714	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R517	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R718	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R518	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R719	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R519	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R720	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R723	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R521	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R751	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R522	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R752	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R523	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R755	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R524	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R756	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R525	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R757	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R526	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R758	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R527	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R759	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R528	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R760	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R529	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R761	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R530	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R764	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R531	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R765	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R532	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R533	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R769	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R553	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R921	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R553	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R922	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R554	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R923	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R924	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R556	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R925	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R557	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R926	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R560	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R927	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R561	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3001	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R562	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R563	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R564	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3005	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3006	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R566	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R567	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3009	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R568	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R569	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R570	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R3013	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R571	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R3018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R572	NRSA63J-4R7X	MG RESISTOR	4.7Ω 1/16W J	R3119	NRSA63J-225X	MG RESISTOR	2.2MΩ 1/16W J
R573	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3122	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R574	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3123	NRSA63J-302X	MG RESISTOR	3kΩ 1/16W J
R575	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3125	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R576	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3126	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R577	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3128	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R578	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3129	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R584	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3131	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R585	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3132	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R586	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3133	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R587	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3167	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R588	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3201	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R589	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3206	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R593	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L101	NQL79GM-100X	COIL	10uH M
R594	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L501	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R621	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L902	NQL52EM-220X	COIL	22uH M
R622	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	L903	NQR0562-010X	CHOKE COIL	
R623	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	L906	NQL52EM-220X	COIL	22uH M
R624	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L3001	NQL79GM-100X	COIL	10uH M
R625	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	L3002	NQL79GM-100X	COIL	10uH M
R626	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	CN001	QGF0508C2-50W	CONNECTOR	FFC/FPC (1-50)
R634	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	CN002	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)
R635	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	J401	QNZ0726-001	AV JACK	INPUT-1(S/V/L/R)
R636	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	J402	QNN0650-001	PIN JACK	INPUT-1(COMPONENT)
R638	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	J403	QNZ0726-001	AV JACK	INPUT-2(S/V/L/R)
R639	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J405	QNN0651-001	PIN JACK	INPUT-3(V/L/R)
R640	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	J406	QNN0650-001	PIN JACK	INPUT-3(COMPONENT)
R642	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	J407	QNN0652-001	PIN JACK	AUDIO IN
R644	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	J408	QNZ0726-001	AV JACK	MONITOR/REC OUT
R647	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	J410	QNZ0561-001	D CONNECTOR	PC IN
R649	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	K661	NQR0499-002X	FERRITE BEADS	
R650	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	K662	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R651	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	K663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R652	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	TU3001	QAU0430-002	TUNER	
R653	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	X551	NAX0623-001X	C RESONATOR	8.00MHz
R654	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	X661	NAX0857-001X	C RESONATOR	25.00MHz
R661	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R662	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J				
R665	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R666	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R669	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J				
R670	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R671	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R687	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				

## SD CARD P.W. BOARD ASS'Y (SFL-1305A-M2)



REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## D-AMP P.W. BOARD ASS'Y (SFL-6302A-M2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## SW P.W. BOARD ASS'Y (SFL-7207A-M2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## LED P.W. BOARD ASS'Y (SFL-8713A-M2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## MAIN POWER P.W. BOARD ASS'Y (SFL-9054A-M2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## DC-DC P.W. BOARD ASS'Y (SFL-9164A-M2)

REFER TO PARTS LIST IN PAGE 3-15 FOR THIS P.W. BOARD.

## SUB POWER P.W. BOARD ASS'Y (SFL-9712A-M2)

REFER TO PARTS LIST IN PAGE 3-15 FOR THIS P.W. BOARD.

## DIGITAL P.W. BOARD ASS'Y (SFL0D184A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC6001	JCC5068	IC		
IC6002	SN74LVC1G08V-X	IC		
IC6011	SN74CBQ16211G-X	IC		
IC6012	SN74CBQ3306AU-X	IC		
IC6013	SN74CBQ3306AU-X	IC		
IC6101	EDD1232AFA-6B	IC		
IC6102	LP2996MR-X	IC		
IC6250	UPC5702GS-027-X	IC		
IC6251	R1170H331B-X	IC		
IC6501	THC63LVD1023	IC		
IC6724	S-80928CLNB-G-W	IC		
IC6901	R1141Q331B-X	IC		
IC7033	CD74HC4094PW-X	IC		
IC7036	ADC081S021CIS-X	IC		
IC7201	39VF800A7IEKD83	IC(MICRO C ROM)		
IC7203	HY57V161610ETP7	IC		
IC7204	S-80928CLNB-G-W	IC		
IC7601	M306V7MG-155FP	IC(MCU)		
IC7602	ATF16-46FH97S	IC(DIGITAL)	(SERVICE)	
IC7603	SN74AHCT1G08V-X	IC		
IC7604	SN74LVC1G04V-X	IC		
IC7605	MM1673XN-X	IC		
IC7606	MM1673XN-X	IC		
IC8501	BR24L02F-W-X	IC(DIGITAL)		
IC8502	BR24L02F-W-X	IC(DIGITAL)		
IC8503	SI9021CTU	IC		
IC8504	S-80828CLNB-G-W	IC		
IC8505	R1170H181B-X	IC		
IC8506	UDA1334BT/N2-X	IC		
IC9001	MP2263DN-C053-X	IC		
IC9101	MM1662FT-X	IC		
IC9201	MP2263DN-C053-X	IC		
IC9301	MM1701CH-X	IC		
Q6201	2SA1530A/QR/-X	TRANSISTOR		
Q6202	2SA1530A/QR/-X	TRANSISTOR		
Q6203	2SA1022/BC/-X	TRANSISTOR		
Q6204	2SA1022/BC/-X	TRANSISTOR		
Q6205	2SA1022/BC/-X	TRANSISTOR		
Q6206	2SA1022/BC/-X	TRANSISTOR		
Q6207	2SC3837K/NP/-X	TRANSISTOR		
Q6208	2SC3837K/NP/-X	TRANSISTOR		
Q6209	2SC3837K/NP/-X	TRANSISTOR		
Q6210	2SC3837K/NP/-X	TRANSISTOR		
Q6211	2SC3837K/NP/-X	TRANSISTOR		
Q6212	2SC3837K/NP/-X	TRANSISTOR		
Q6213	2SC3837K/NP/-X	TRANSISTOR		
Q6214	2SC3837K/NP/-X	TRANSISTOR		

△Ref No.	Part No.	Part Name	Description	Local
Q6250	2SC3928A/QR/-X	TRANSISTOR		
Q6251	2SC3928A/QR/-X	TRANSISTOR		
Q6501	2SC3928A/QR/-X	TRANSISTOR		
Q7030	RT1N441C-X	TRANSISTOR		
Q7032	RT1P441C-X	DIGI TRANSISTOR		
Q7033	RT1P441C-X	DIGI TRANSISTOR		
Q7034	RT1P441C-X	DIGI TRANSISTOR		
Q7035	RT1P441C-X	DIGI TRANSISTOR		
Q7501	RT1N441C-X	TRANSISTOR		
Q9501	RT1N441C-X	TRANSISTOR		
Q9502	2SC3928A/QR/-X	TRANSISTOR		
Q9503	2SC3928A/QR/-X	TRANSISTOR		
D6052	1SS355W-X	DIODE		
D6502	1SS355W-X	DIODE		
D7502	1SS355W-X	DIODE		
D9001	EC30HA03L-X	SB DIODE		
D9002	EC30HA03L-X	SB DIODE		
D9003	PTZ3.9B-X	Z DIODE		
D9201	EC30HA03L-X	SB DIODE		
D9202	EC30HA03L-X	SB DIODE		
D9203	PTZ3.9B-X	Z DIODE		
D9204	1SS355W-X	DIODE		
D9501	1SS355W-X	DIODE		
D9502	1SS355W-X	DIODE		
C6002	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6051	NCB21HK-104X	C CAPACITOR	0.1uF 50V K	
C6052	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	
C6053	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C6054	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6055	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6101	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6103	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6107	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6111	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6112	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6113	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6114	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6116	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6117	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6118	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6119	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6121	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	
C6122	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	
C6123	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6124	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	
C6125	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6126	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6128	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6130	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	
C6132	NEHL1EM-226X	E CAPACITOR	22uF 25V M	
C6133	NCB31CK-154X	C CAPACITOR	0.15uF 16V K	
C6134	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6135	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6139	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6205	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6211	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6217	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6218	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6219	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6220	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6227	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6228	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6229	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6236	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6237	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6238	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6239	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6240	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6241	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6242	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6243	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6244	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6245	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6246	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6247	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6248	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6249	NCB31AK-105X	C CAPACITOR	1uF 10V K	
C6250	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6251	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C6252	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6253	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6254	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6255	NCB11AK-106X	C CAPACITOR	10uF 10V K	
C6260	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6261	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	
C6262	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	



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△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C7506	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6111	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
C7507	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6112	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7508	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6113	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7510	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6114	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7514	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6115	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6116	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7517	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6117	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7601	NCB11CK-105X	C CAPACITOR	1uF 16V K	R6118	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6119	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6120	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7604	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6121	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7605	NCB31HK-221X	C CAPACITOR	220pF 50V K	R6122	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C7606	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	R6127	NRSA63J-1R5X	MG RESISTOR	1.5Ω 1/16W J
C7607	NCB31HK-681X	C CAPACITOR	680pF 50V K	R6141	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7608	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6142	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7609	NCB31HK-681X	C CAPACITOR	680pF 50V K	R6201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7610	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R6202	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7611	NDC31HJ-221X	C CAPACITOR	220pF 50V J	R6203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7612	NCB21AK-225X	C CAPACITOR	2.2uF 10V K	R6204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7615	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6205	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C7616	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7617	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R6209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7618	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R6214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7619	NCB11AK-106X	C CAPACITOR	10uF 10V K	R6215	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7620	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R6216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7621	NCB11AK-106X	C CAPACITOR	10uF 10V K	R6217	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7631	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	R6220	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C7632	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	R6223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C7633	NDC31HJ-151X	C CAPACITOR	150pF 50V J	R6224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9001	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R6227	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C9002	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R6228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9003	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R6229	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9004	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6230	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9005	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6231	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9006	NDC31HJ-120X	C CAPACITOR	12pF 50V J	R6232	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9007	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6233	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9010	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6234	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C9101	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6235	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9103	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R6236	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9201	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R6237	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9202	NCJ41EK-106X-U	C CAPACITOR	10mF 25V K	R6238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6239	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9205	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6240	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9206	NDC31HJ-120X	C CAPACITOR	12pF 50V J	R6241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9207	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R6242	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9208	NCJ41CK-226X-U	C CAPACITOR	22mF 16V K	R6243	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C9209	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R6244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C9211	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R6245	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C9302	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6246	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C9303	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R6247	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C9304	NCB11CK-475X	C CAPACITOR	4.7uF 16V K	R6248	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C9306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6249	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C9501	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6251	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C9502	NCB31CK-105X	C CAPACITOR	1uF 16V K	R6252	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6253	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6254	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6255	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6256	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6009	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6257	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6014	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6258	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6017	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6259	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6018	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6260	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6019	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6261	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R6020	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6262	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R6055	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	R6263	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6057	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6264	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6058	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6265	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R6059	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R6266	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R6060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6267	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R6061	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6268	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6064	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6269	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6065	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6270	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6066	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6271	NRSA63D-242X	MG RESISTOR	2.4kΩ 1/16W D
R6068	NRZ0080-0R0X	NET RESISTOR	0Ω 1/16W J	R6273	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6274	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
R6073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6275	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6074	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6276	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6277	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R6279	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6101	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6280	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6102	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6281	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6103	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6282	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R6104	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6283	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R6105	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6284	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6106	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6285	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R6107	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R6286	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6108	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R6287	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6109	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6288	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R6110	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R6289	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
				R6290	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J



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△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R7634	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L6115	NQR0499-001X	FERRITE BEADS		
R7635	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	L6254	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R7643	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6265	NQR0499-001X	FERRITE BEADS		
R7644	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6266	NQR0499-001X	FERRITE BEADS		
R7646	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6511	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R7649	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L6512	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R7658	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	L6513	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R7659	NRSA63J-560X	MG RESISTOR	56Ω	1/16W J	L6514	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R8796	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6515	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R8797	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6516	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4
R8798	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6531	NQR0199-007X	FERRITE BEADS		
R8799	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L6701	NQR0413-003X	FERRITE BEADS		
R9001	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	L6911	NQR0499-001X	FERRITE BEADS		
R9002	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	L6912	NQR0499-001X	FERRITE BEADS		
R9003	NRSA63D-273X	MG RESISTOR	27kΩ	1/16W D	L6922	NQL79GM-220X	COIL	22uH	M
R9004	NRSA63J-684X	MG RESISTOR	680kΩ	1/16W J	L6924	NQL79GM-220X	COIL	22uH	M
R9005	NRSA63D-103X	MG RESISTOR	10kΩ	1/16W D	L6925	NQL79GM-220X	COIL	22uH	M
R9006	NRSA63J-512X	MG RESISTOR	5.1kΩ	1/16W J	L6931	NQR0499-001X	FERRITE BEADS		
R9007	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	L7501	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R9008	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L7502	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R9201	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	L9001	NQLC8CM-150X	COIL	15uH	M
R9202	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	L9201	NQLC8CM-150X	COIL	15uH	M
R9203	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D	L9204	NQR0562-014X	CHOKE COIL		
R9205	NRSA63D-103X	MG RESISTOR	10kΩ	1/16W D	L9306	NQR0351-003X	FERRITE BEADS		
R9206	NRSA63J-332X	MG RESISTOR	3.3kΩ	1/16W J	L9307	NQR0351-003X	FERRITE BEADS		
R9207	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	CN001	QGF0508C2-50W	CONNECTOR	FFC/FPC (1-50)	
R9209	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	CN002	QGF0508C2-40W	CONNECTOR	FFC/FPC (1-40)	
R9302	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J	CN110	QGB0603L1-B0	CONNECTOR	B-B (1-110)	
R9306	NCB21EK-102X	C CAPACITOR	1000pF	25V K	J8501	NNZ0117-001	CONNECTOR	DIGITAL IN-1	
R9308	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	J8502	NNZ0117-001	CONNECTOR	DIGITAL IN-2	
R9501	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	K6052	NQR0489-002X	FERRITE BEADS		
R9502	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6250	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9503	NRSA63J-393X	MG RESISTOR	39kΩ	1/16W J	K6268	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9504	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6271	NQR0499-001X	FERRITE BEADS		
R9505	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K6272	NQR0499-001X	FERRITE BEADS		
R9506	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K6274	NQR0499-001X	FERRITE BEADS		
R9507	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K6921	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9508	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	K7032	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9509	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	K7033	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R9510	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	K7034	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
RA6001	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7202	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
RA6002	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	K7211	NQR0499-002X	FERRITE BEADS		
RA6007	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7501	NQR0413-002X	FERRITE BEADS		
RA6008	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	K7504	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
RA6009	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	K7601	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
RA6010	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4	LC6225	NQR0470-007X	EMI FILTER	2200pF	50V
RA6011	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J	LC6226	NQR0470-007X	EMI FILTER	2200pF	50V
RA6101	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC6501	NQR0479-001X	EMI FILTER		
RA6102	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	LC7505	NQR0483-005X	EMI FILTER	100uF	25V Z
RA6103	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC9301	NQR0470-003X	EMI FILTER	100pF	50V
RA6104	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC9303	NQR0483-005X	EMI FILTER	100uF	25V Z
RA6105	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	LC9305	NQR0483-005X	EMI FILTER	100uF	25V Z
RA6106	NRZ0040-220X	NET RESISTOR	22Ω	1/16W J x4	LC9307	NQR0483-005X	EMI FILTER	100uF	25V Z
RA6107	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	X6250	NAX0580-001X	CXO	27.0000MHz	
RA6108	NRZ0080-220X	NET RESISTOR	22Ω	1/16W J	X7001	NAX0669-001X	C RESONATOR	6.000MHz	
RA6109	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4	X7601	NAX0613-001X	C RESONATOR	16.000MHz	
RA6110	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6111	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4					
RA6112	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4					
RA6113	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6114	NRZ0040-470X	NET RESISTOR	47Ω	1/16W J x4					
RA6115	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6116	NRZ0080-470X	NET RESISTOR	47Ω	1/16W J					
RA6501	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6502	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6503	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA6504	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6505	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6506	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6541	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6542	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6543	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6544	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA6545	NRZ0033-0R0W	NET RESISTOR	0Ω						
RA6546	NRZ0080-0R0X	NET RESISTOR	0Ω	1/16W J					
RA7202	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7203	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7204	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7205	NRZ0080-473X	NET RESISTOR	47kΩ						
RA7503	NQR0271-004X	EMI FILTER							
RA7601	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7602	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7603	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7605	NRZ0034-0R0W	NET RESISTOR	0Ω	1/32W J x4					
RA7606	NRZ0034-101W	NET RESISTOR	100Ω	1/32W J x4					
L6051	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J					
L6101	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J					
L6102	NQL79GM-220X	COIL	22uH	M					
L6103	NQL79GM-220X	COIL	22uH	M					

## ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2101B-M2)

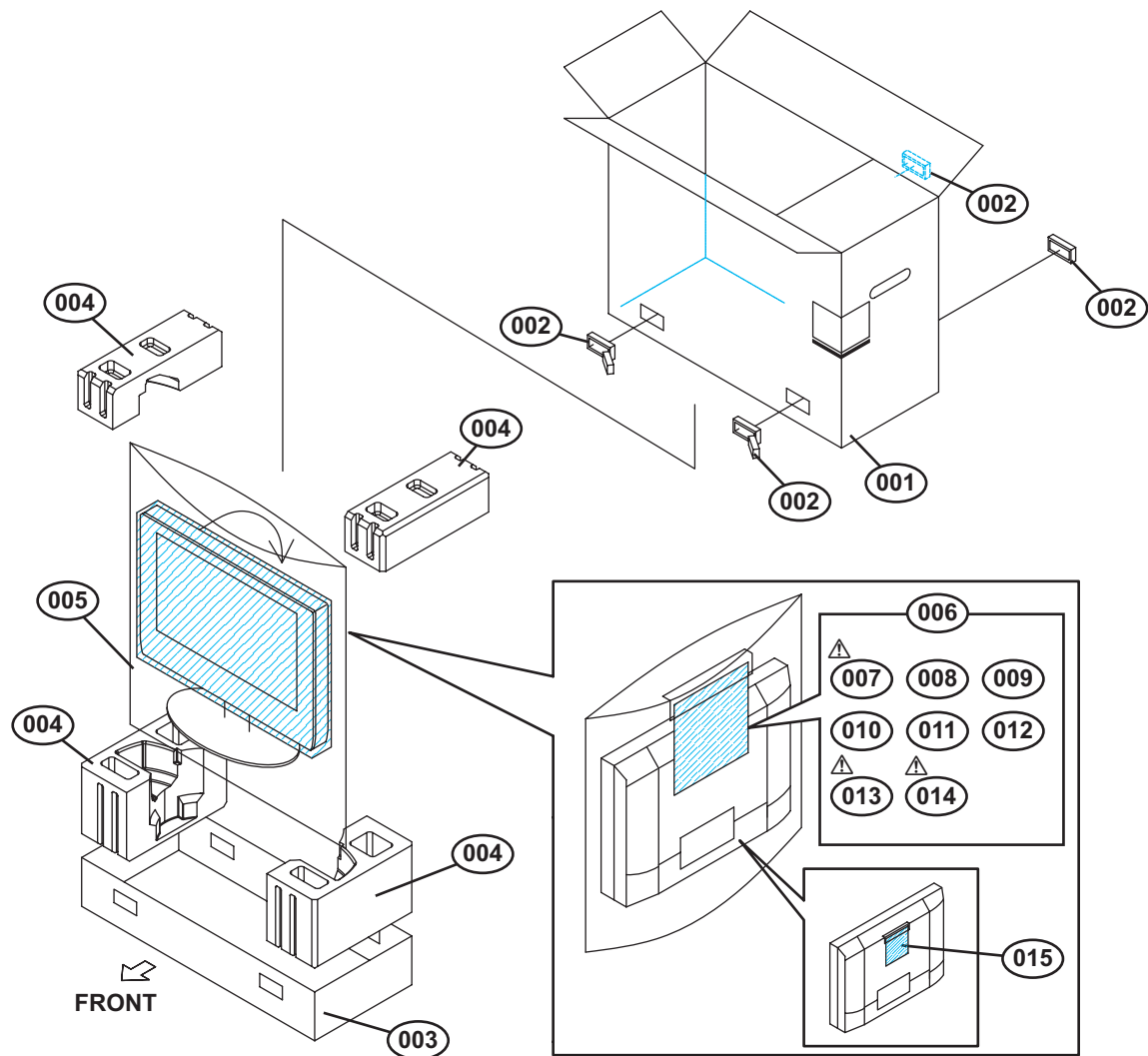
REFER TO PARTS LIST IN PAGE 3-20 FOR THIS P.W. BOARD.



# REMOTE CONTROL UNIT PARTS LIST (RM-C14G-1H)

△ Ref.No.	Part No.	Part Name	Description	Local
	UR77EC1403A	BATTERY COVER		

## PACKING



## PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
001	LC22199-001A-A	PACKING CASE	TOP	
002	LC32958-001A	JOINT	(x4)	
003	LC22200-001A-A	PACKING CASE	BOTTOM	
004	LC12855-001A-A	CUSION ASSY	4pcs in 1set	
005	GQ30092-003A-A	POLY BAG		
006	QPA02503505P	POLY BAG	25cm x 35cm	
△ 007	BT-51034-2Q	REGIST. CARD		
008	-----	BATTERY	R6P/AA(x2)	
009	RM-C14G-1H	REMOTE CONTROL UNIT		
010	QAU0382-002	RF SPLITTER		
011	-----	WARRANTY CARD		
012	QAM0523-003	RF CABLE	BT-52006-2Q	
△ 013	LCT2128-001A-A	INST BOOK	30cm(x2)	
△ 014	LCT2129-001A-A	INST BOOK	English	
015	LCT1883-001A-A	CAUTION SHEET	French	



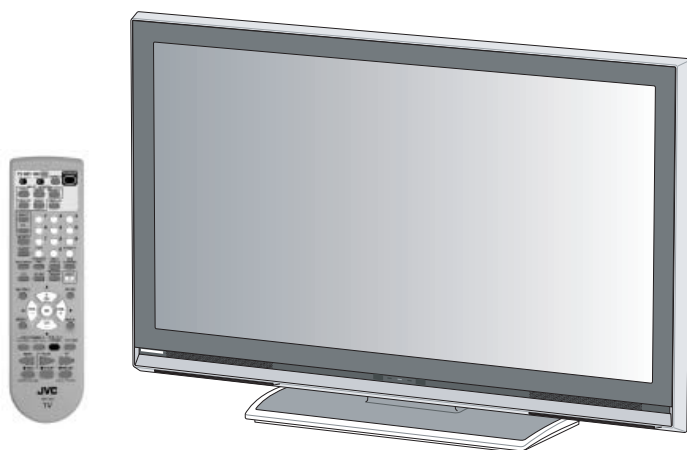
# JVC

## SCHEMATIC DIAGRAMS

LCD PANEL TELEVISION

**LT-46FH97<sub>IS</sub>,**  
**LT-46FN97<sub>IS</sub>**

CD-ROM No.SML200607



BASIC CHASSIS

FL4

*I'Art*<sup>TM</sup> PALETTE

**GENESSA**

**HDMI**<sup>TM</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**i HDTV**

**DCR** **DOLBY**  
DIGITAL

**MaxxBass**<sup>®</sup>

*Full HD*



# LT-46FH97/s, LT-46FN97/s

## STANDARD CIRCUIT DIAGRAM

### ■ NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  $\triangle$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$ /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209  $\rightarrow$  R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

###### ● Resistance value

- No unit : [ $\Omega$ ]  
K : [k $\Omega$ ]  
M : [M $\Omega$ ]

###### ● Rated allowable power

- No indication : 1/16 [W]  
Others : As specified

###### ● Type

- No indication : Carbon resistor  
OMR : Oxide metal film resistor  
MFR : Metal film resistor  
MPR : Metal plate resistor  
UNFR : Uninflamable resistor  
FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

###### ● Capacitance value

- 1 or higher : [pF]  
less than 1 : [ $\mu$ F]

###### ● Withstand voltage

- No indication : DC50[V]  
Others : DC withstand voltage [V]  
AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

###### ● Type

- No indication : Ceramic capacitor  
MM : Metalized mylar capacitor  
PP : Polypropylene capacitor  
MPP : Metalized polypropylene capacitor  
MF : Metalized film capacitor  
TF : Thin film capacitor  
BP : Bipolar electrolytic capacitor  
TAN : Tantalum capacitor

##### (3)Coils

- No unit : [ $\mu$ H]  
Others : As specified

##### (4)Power Supply




-  : B1  : B2 (12V)  
 : 9V  : 5V

\* Respective voltage values are indicated





##### (5)Test point

-  : Test point  : Only test point display



##### (6)Connecting method

-  : Connector  : Wrapping or soldering  
 : Receptacle

##### (7)Ground symbol

-  : LIVE side ground  
 : ISOLATED(NEUTRAL) side ground  
 : EARTH ground  
 : DIGITAL ground

#### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time.  
If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

##### NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.



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USING P.W. BOARD

PWB ASS'Y name	LT-46FH97/S	LT-46FN97/S
ANALOG P.W. BOARD	SFL-1313A-M2	SFL-1314A-M2
SD CARD P.W. BOARD	SFL-1305A-M2	←
D-AM P.W. BOARD	SFL-6302A-M2	←
SW P.W. BOARD	SFL-7207A-M2	←
LED P.W. BOARD	SFL-8713A-M2	←
MAIN POWER P.W. BOARD	SFL-9054A-M2	←
DC-DC P.W. BOARD	SFL-9164A-M2	←
SUB POWER P.W. BOARD	SFL-9712A-M2	←
DIGITAL P.W. BOARD	SFL0D182A-M2	SFL0D184A-M2

SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

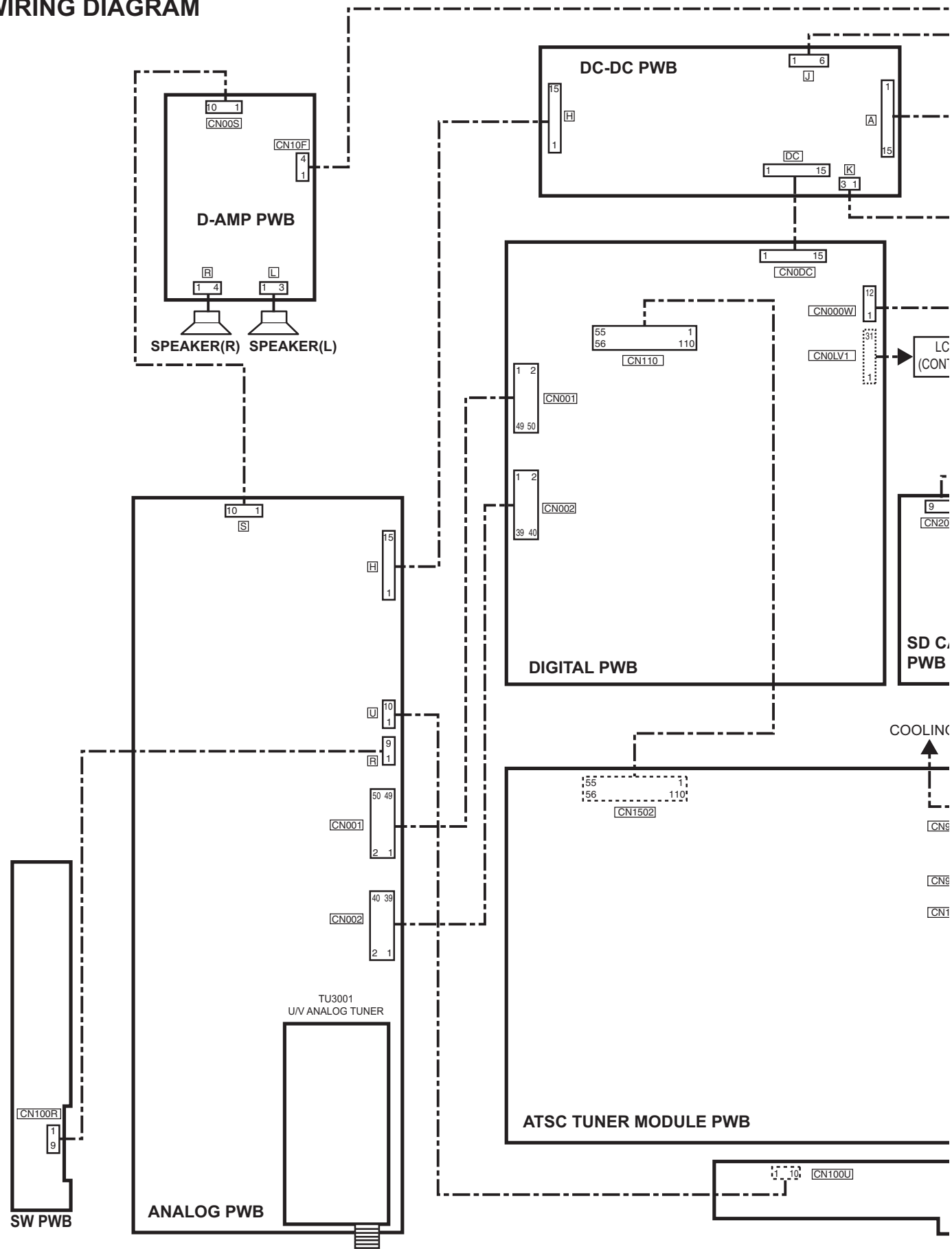
CHIP IC

TOP VIEW		

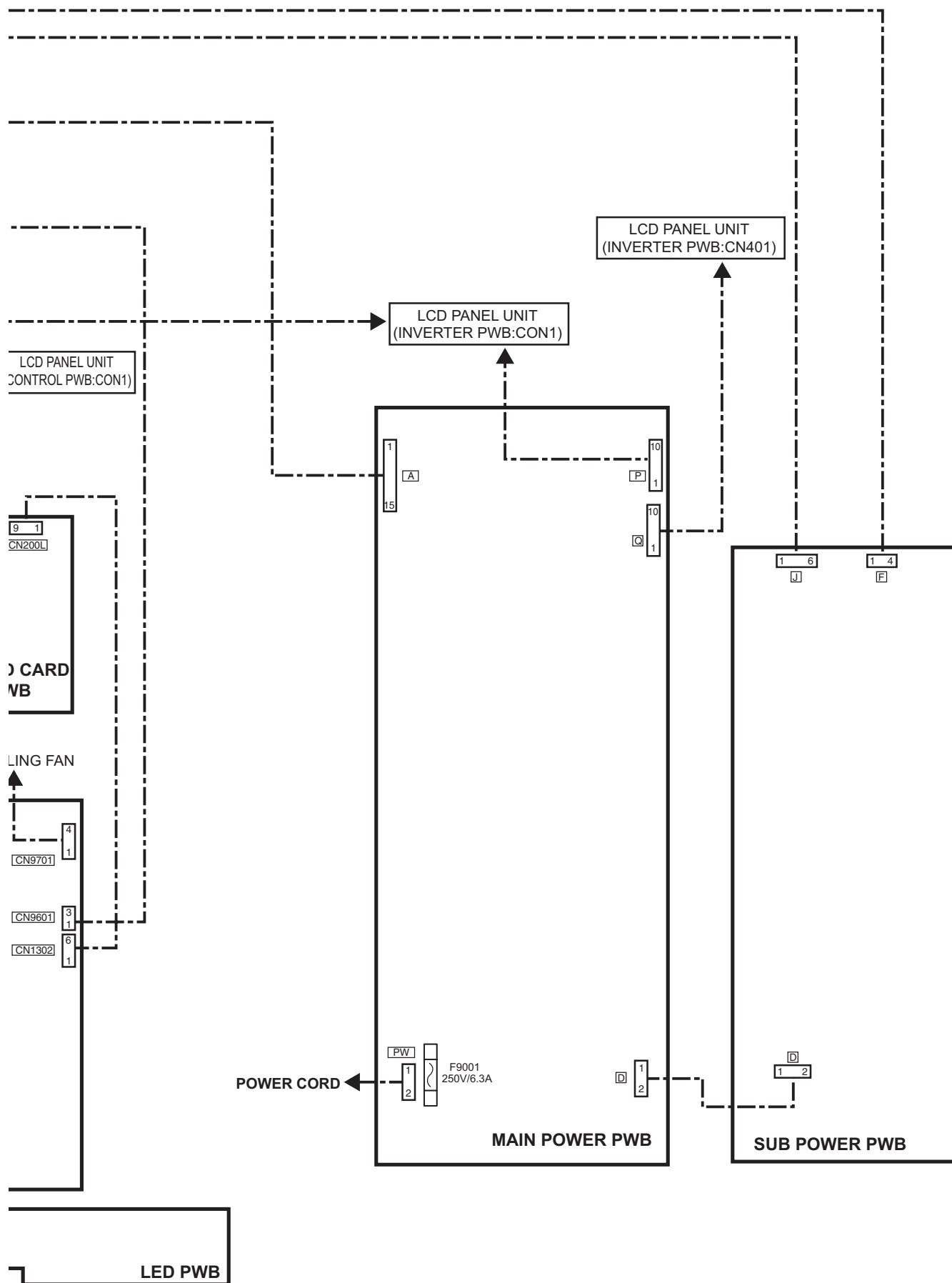
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WIRING DIAGRAM

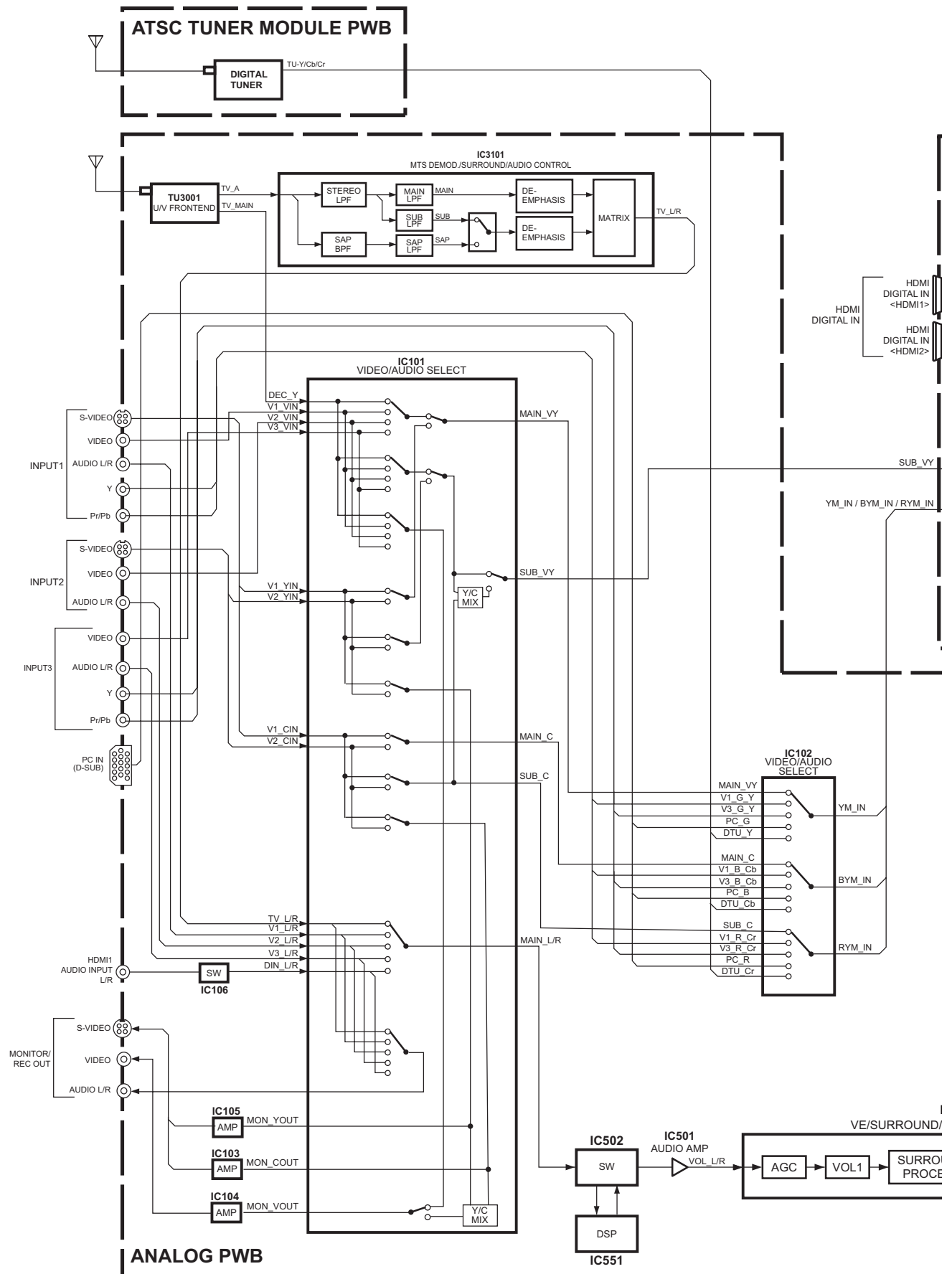




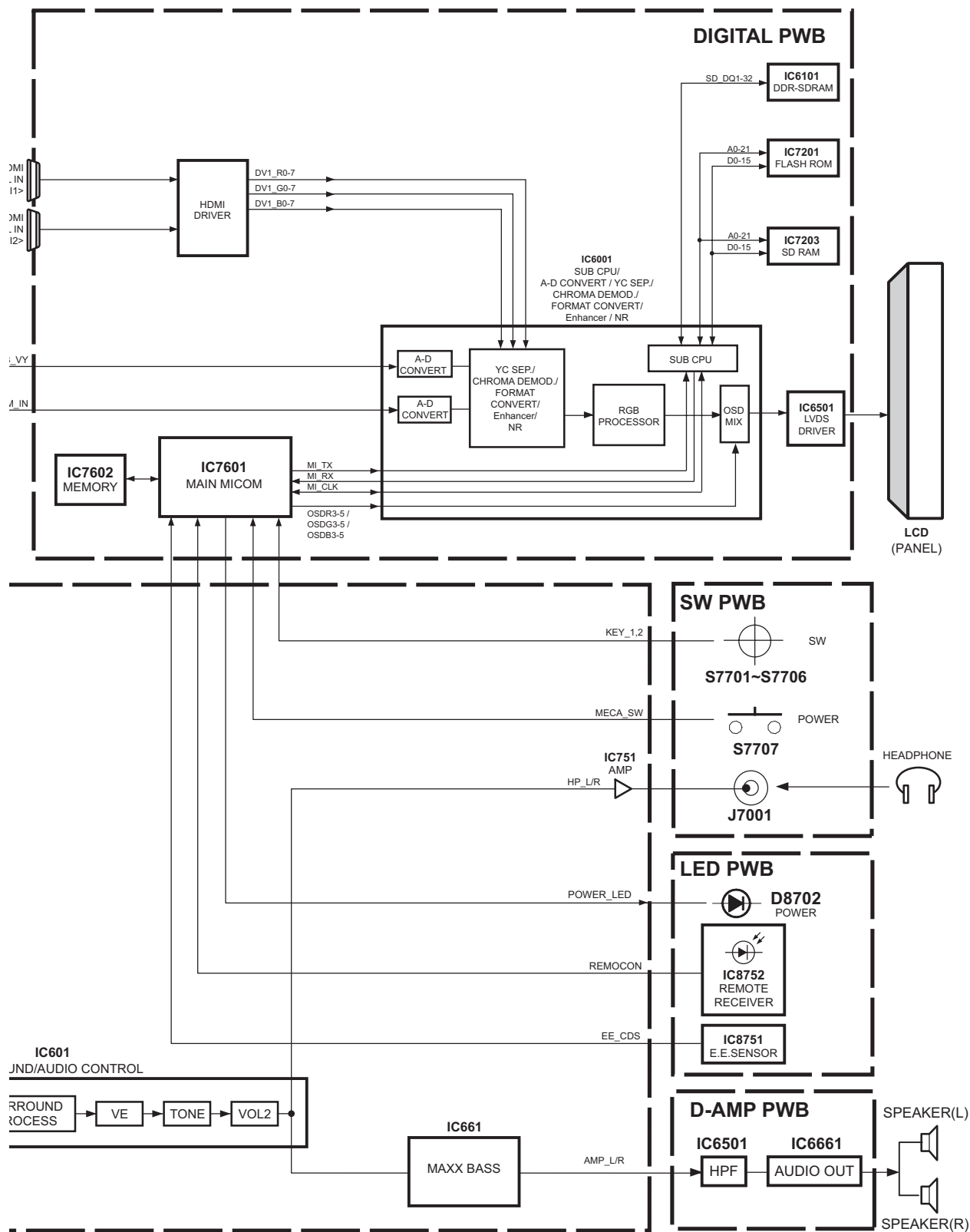




# BLOCK DIAGRAM

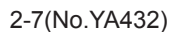








## ANALOG PWB CIRCUIT DIAGRAM (1/6) SHEET 1





ANALOG PWB ASS'Y(1/6)  
SFL-1313A-M2 [LT-46FH97/S]  
SFL-1314A-M2 [LT-46FN97/S]

SHEET 2

DIGITAL PWB(5/16)  
CN002  
SHEET 11

SHEET 3,5,6

SHEET 4

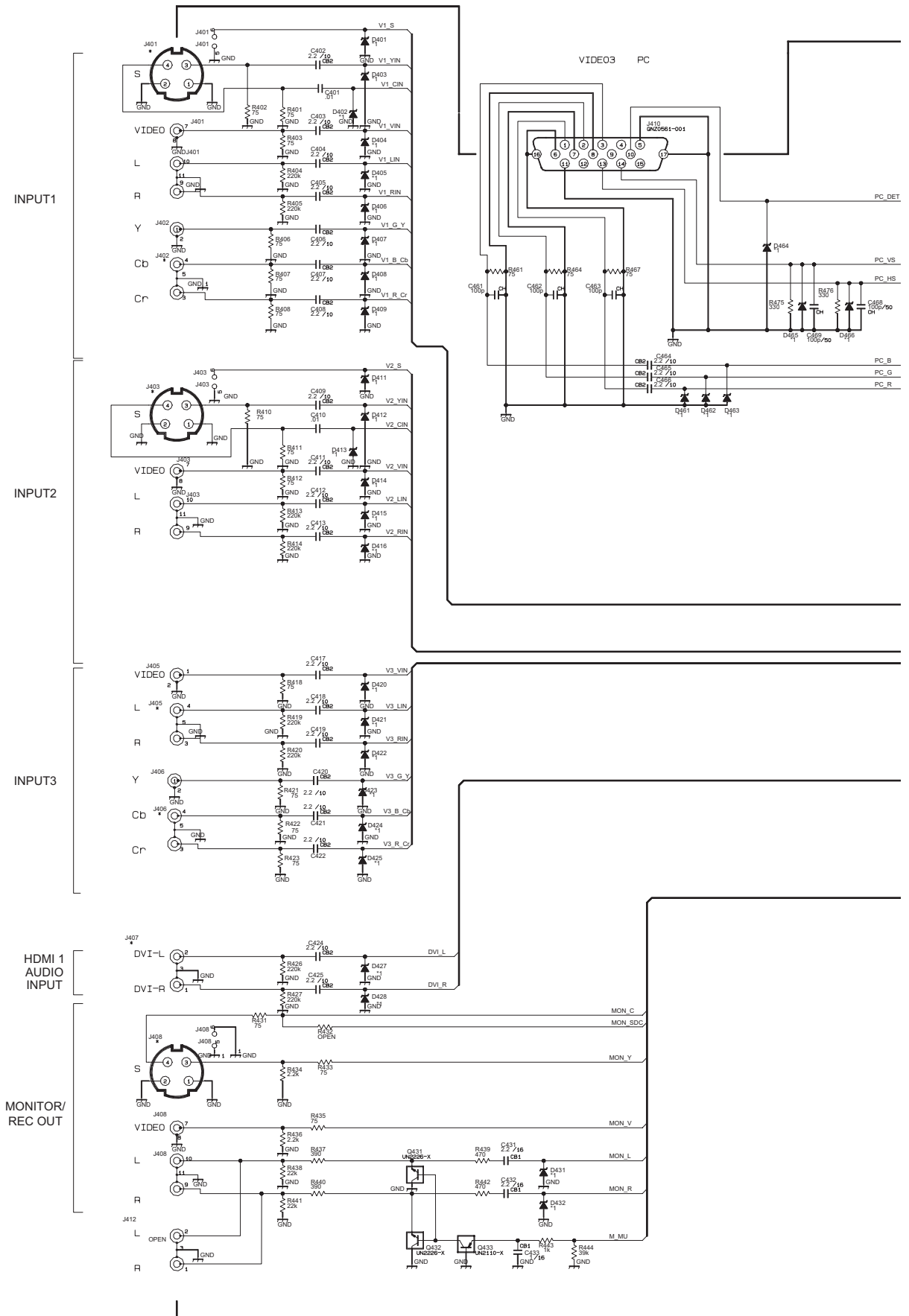
SHEET 3

c10489001a001\_0526\_1/6\_0.0

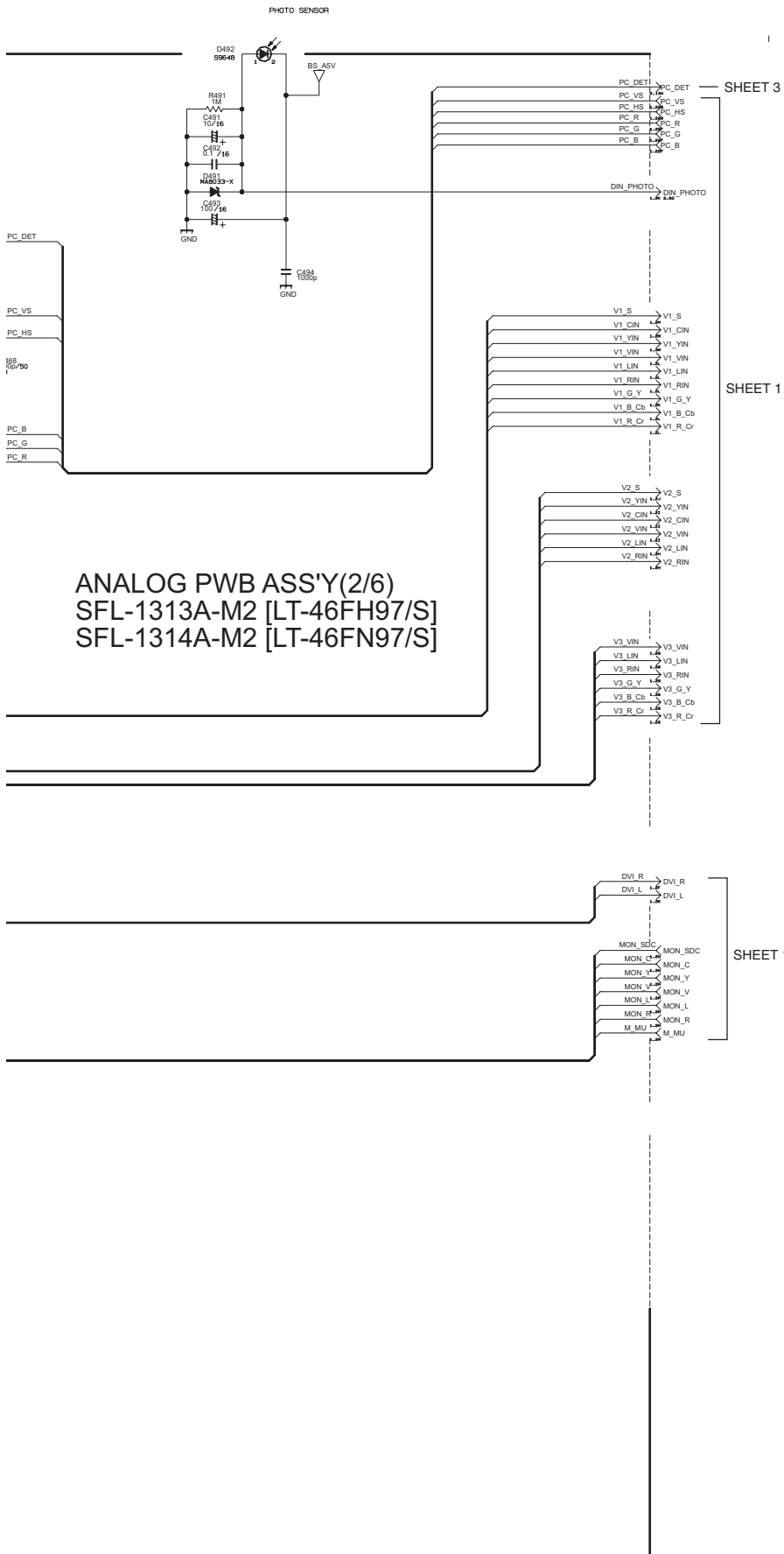
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# ANALOG PWB CIRCUIT DIAGRAM (2/6) SHEET 2





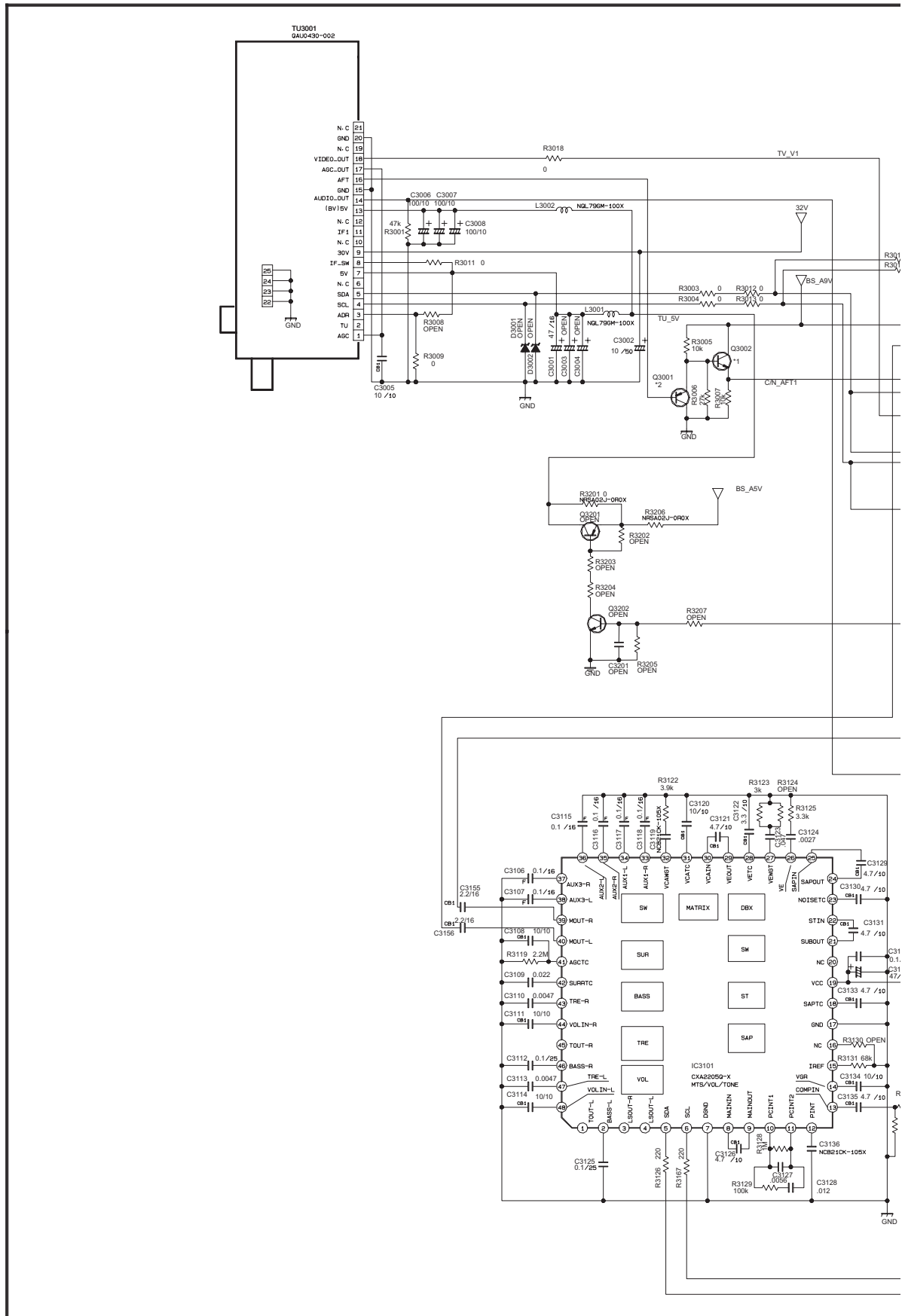


ANALOG PWB ASS'Y(2/6)  
SFL-1313A-M2 [LT-46FH97/S]  
SFL-1314A-M2 [LT-46FN97/S]

× DIFFERENCE LIST

MODEL	UB
40/46FH97	40/46FN97
SFL-1313A	SFL-1314A
LSA18715-01	LSA18715-01
DLIC10761	DLIC10761
J401	PN20728-003
J402	PN20728-003
J403	PN20728-003
J404	PN20728-003
J405	PN20728-003
J406	PN20728-003
J407	PN20728-003
J408	PN20728-003

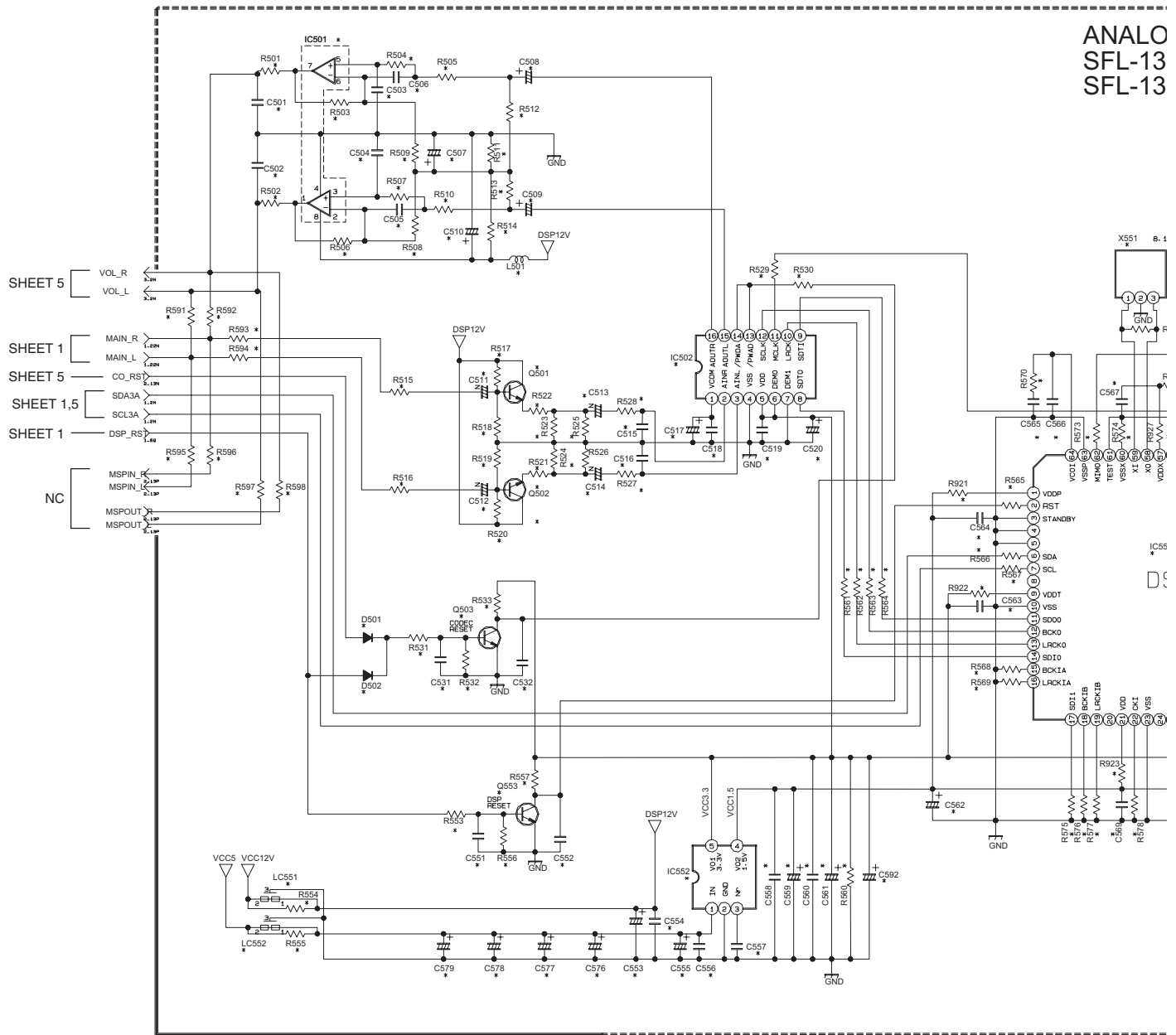






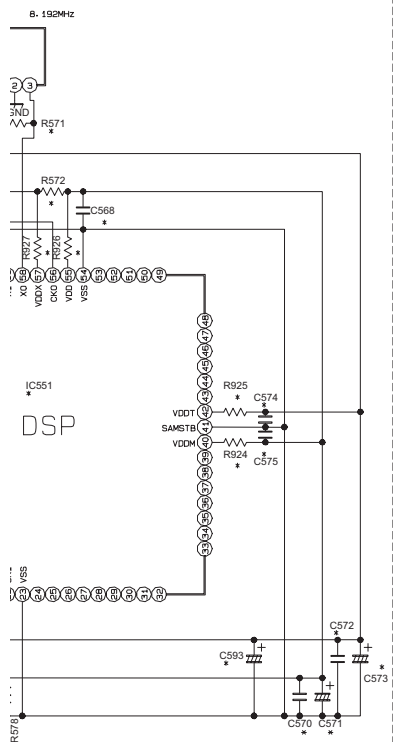








1313A-M2 [LT-46FH97/S]  
1314A-M2 [LT-46FN97/S]



\* DIFFERENCE LIST

[illegible]

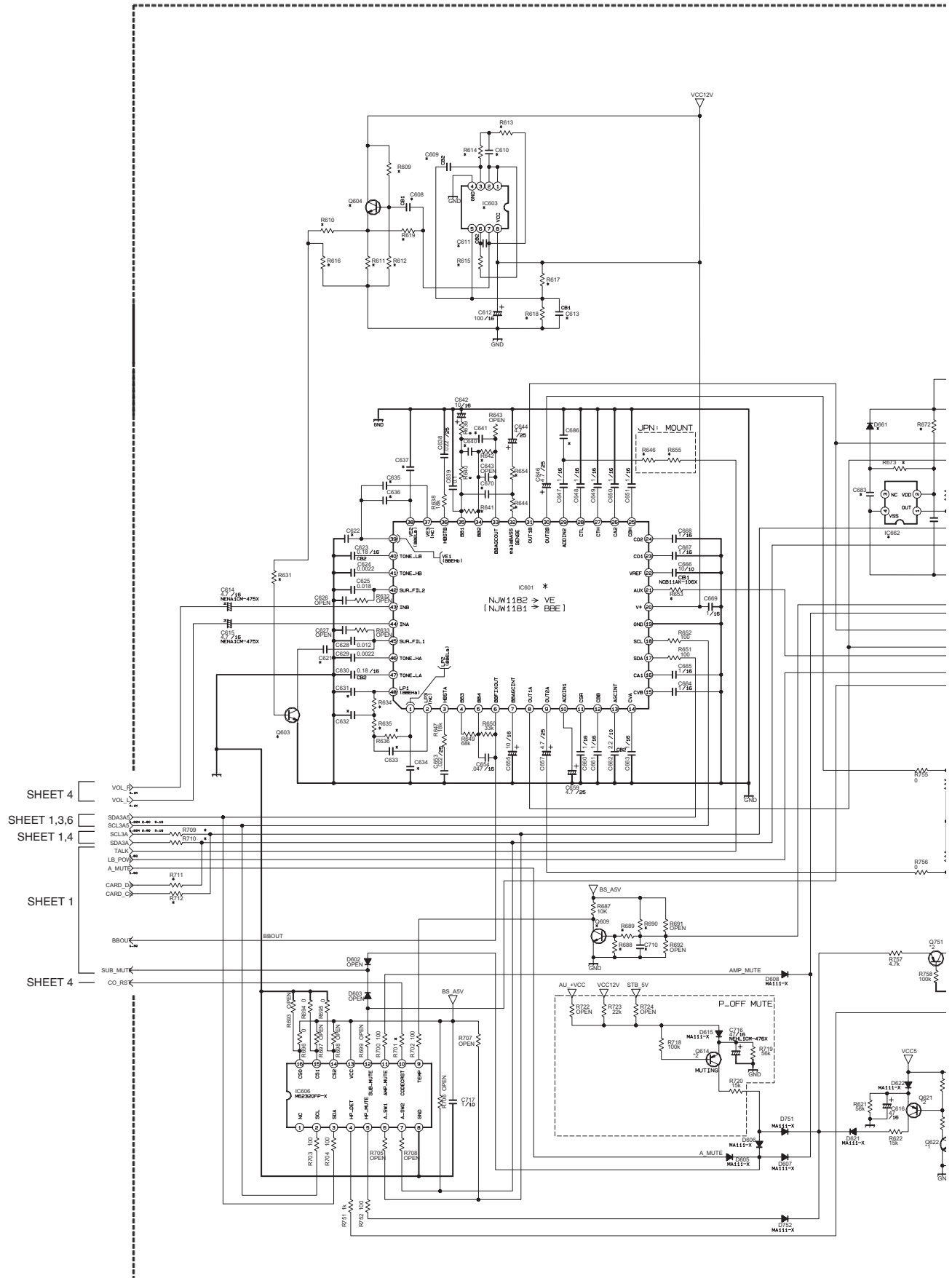
\* DIFFERENCE LIST

[illegible]

\* DIFFERENCE LIST

MODEL	JPN			US				
	SPL-1321A LC410717-019	302T/87 SPL-1311A LC410717-019	37/40X7/B/H SPL-1312A LC410717-019	32X0657 SPL-1315A LC410717-034	37X087 SPL-1316A LC410717-044	40/46FH97 SPL-1313A LC410718-014	40/46FH97 SPL-1314A LC410718-028	
	Q.LLC10586	Q.LLC10541	Q.LLC10541-05	Q.LLC10541-03	Q.LLC10541-04	Q.LLC10761	Q.LLC10761-05	
C501	NH318H-223X	OPEN	OPEN	OPEN	NH318H-223X	NH318H-223X	NH318H-223X	
C502	NH318H-223X	OPEN	OPEN	OPEN	NH318H-223X	NH318H-223X	NH318H-223X	
C503	0.0022	OPEN	OPEN	OPEN	0.0022	0.0022	0.0022	
C504	0.0022	OPEN	OPEN	OPEN	0.0022	0.0022	0.0022	
C505	0.0082	OPEN	OPEN	OPEN	0.0082	0.0082	0.0082	
C506	0.0082	OPEN	OPEN	OPEN	0.0082	0.0082	0.0082	
C507	NH1LM-107X	OPEN	OPEN	OPEN	NH1LM-107X	NH1LM-107X	NH1LM-107X	
C508	150	OPEN	OPEN	OPEN	150	150	150	
C509	150	OPEN	OPEN	OPEN	150	150	150	
C510	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C511	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C512	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C513	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C514	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C515	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C516	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C517	NH1LC-475X	OPEN	OPEN	OPEN	NH1LC-475X	NH1LC-475X	NH1LC-475X	
C518	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C519	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C520	NH1LC-106X	OPEN	OPEN	OPEN	NH1LC-106X	NH1LC-106X	NH1LC-106X	
C531	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C532	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C551	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C552	1000p	OPEN	OPEN	OPEN	1000p	1000p	1000p	
C553	47/16	OPEN	OPEN	OPEN	47/16	47/16	47/16	
C554	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C555	NH1LM-107X	OPEN	NH1LM-107X	OPEN	NH1LM-107X	NH1LM-107X	NH1LM-107X	
C556	0.1	OPEN	0.1	OPEN	0.1	0.1	0.1	
C557	0.1	OPEN	0.1	OPEN	0.1	0.1	0.1	
C558	NH3BL-228X	OPEN	NH3BL-228X	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C559	NH3BL-228X	OPEN	NH3BL-228X	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C560	NH3BL-228X	OPEN	NH3BL-228X	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C561	NH3BL-228X	OPEN	NH3BL-228X	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C562	NH3BL-228X	OPEN	NH3BL-228X	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C563	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C564	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C565	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C566	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C567	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C568	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C569	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C570	NH5A3J-222X	OPEN	OPEN	OPEN	NH5A3J-222X	NH5A3J-222X	NH5A3J-222X	
C571	NH1LM-226X	OPEN	OPEN	OPEN	NH1LM-226X	NH1LM-226X	NH1LM-226X	
C572	NH3BL-105X	OPEN	OPEN	OPEN	NH3BL-105X	NH3BL-105X	NH3BL-105X	
C573	NH3BL-228X	OPEN	OPEN	OPEN	NH3BL-228X	NH3BL-228X	NH3BL-228X	
C574	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C575	0.01	OPEN	OPEN	OPEN	0.01	0.01	0.01	
C576	NH1LM-107X	OPEN	NH1LM-107X	OPEN	NH1LM-107X	NH1LM-107X	NH1LM-107X	
C577	0.1	OPEN	OPEN	OPEN	0.1	0.1	0.1	
C578	NH1LM-107X	OPEN	NH1LM-107X	OPEN	NH1LM-107X	NH1LM-107X	NH1LM-107X	
C579	NH1LM-107X	OPEN	NH1LM-107X	OPEN	NH1LM-107X	NH1LM-107X	NH1LM-107X	
C592	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	
C593	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN	

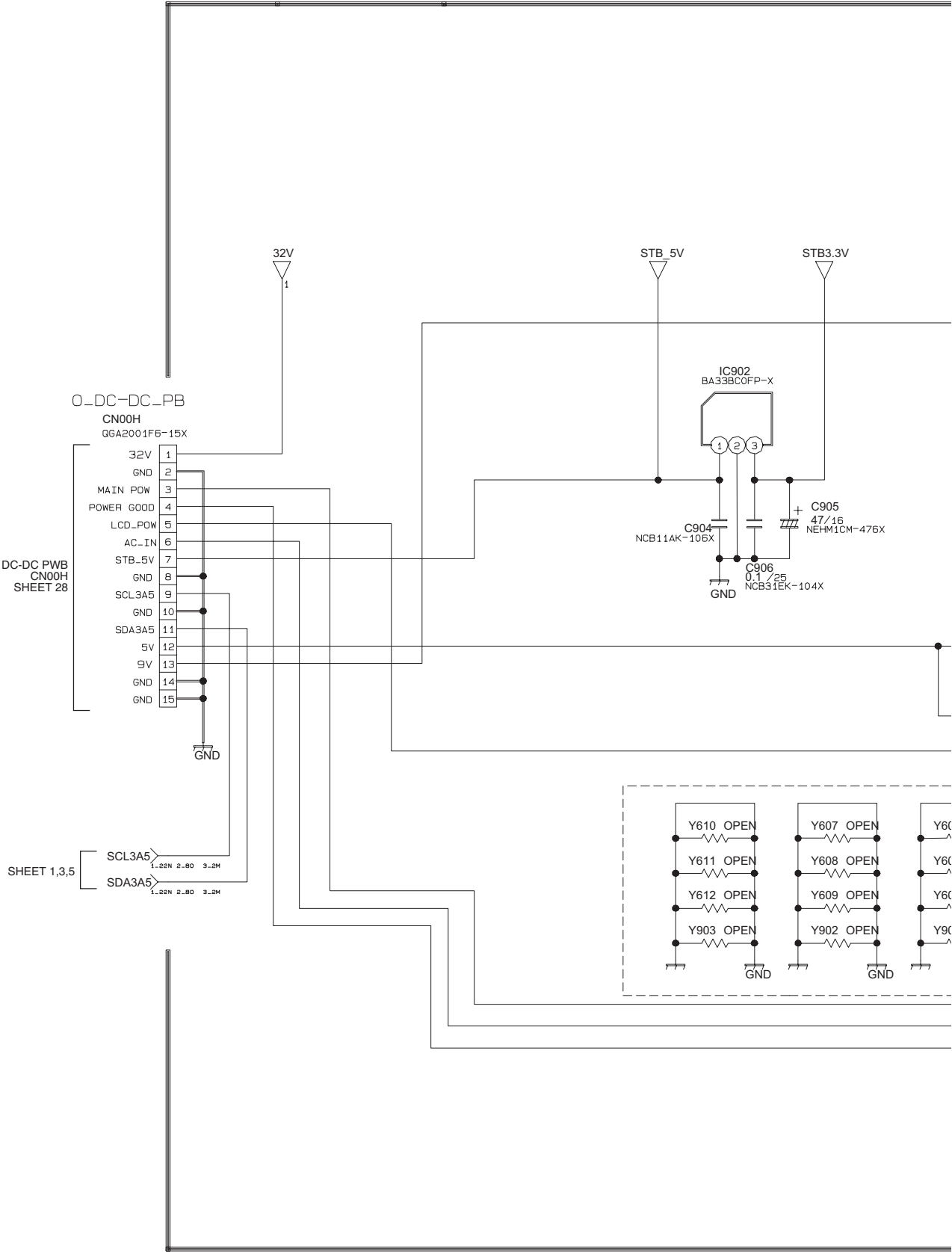






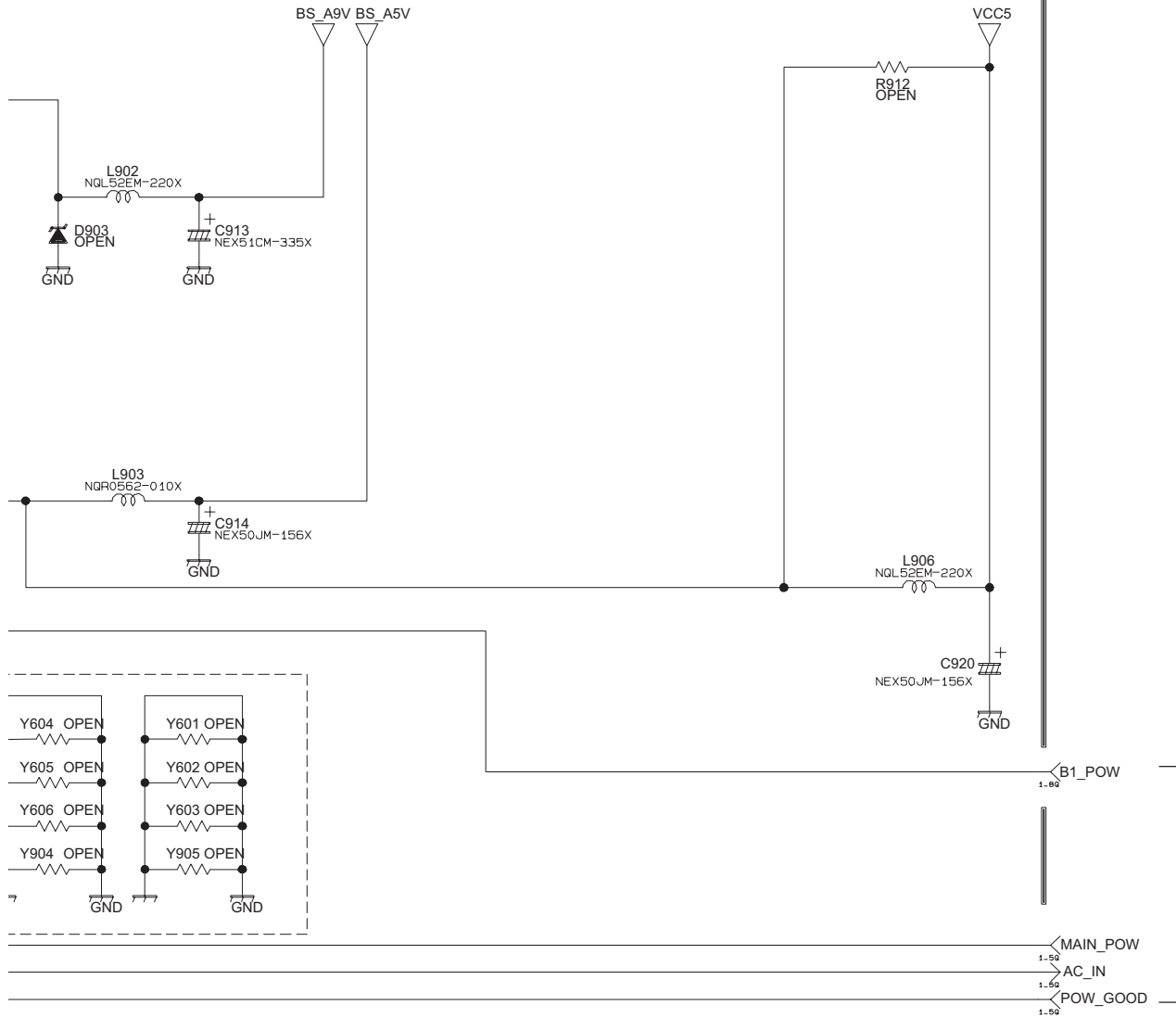






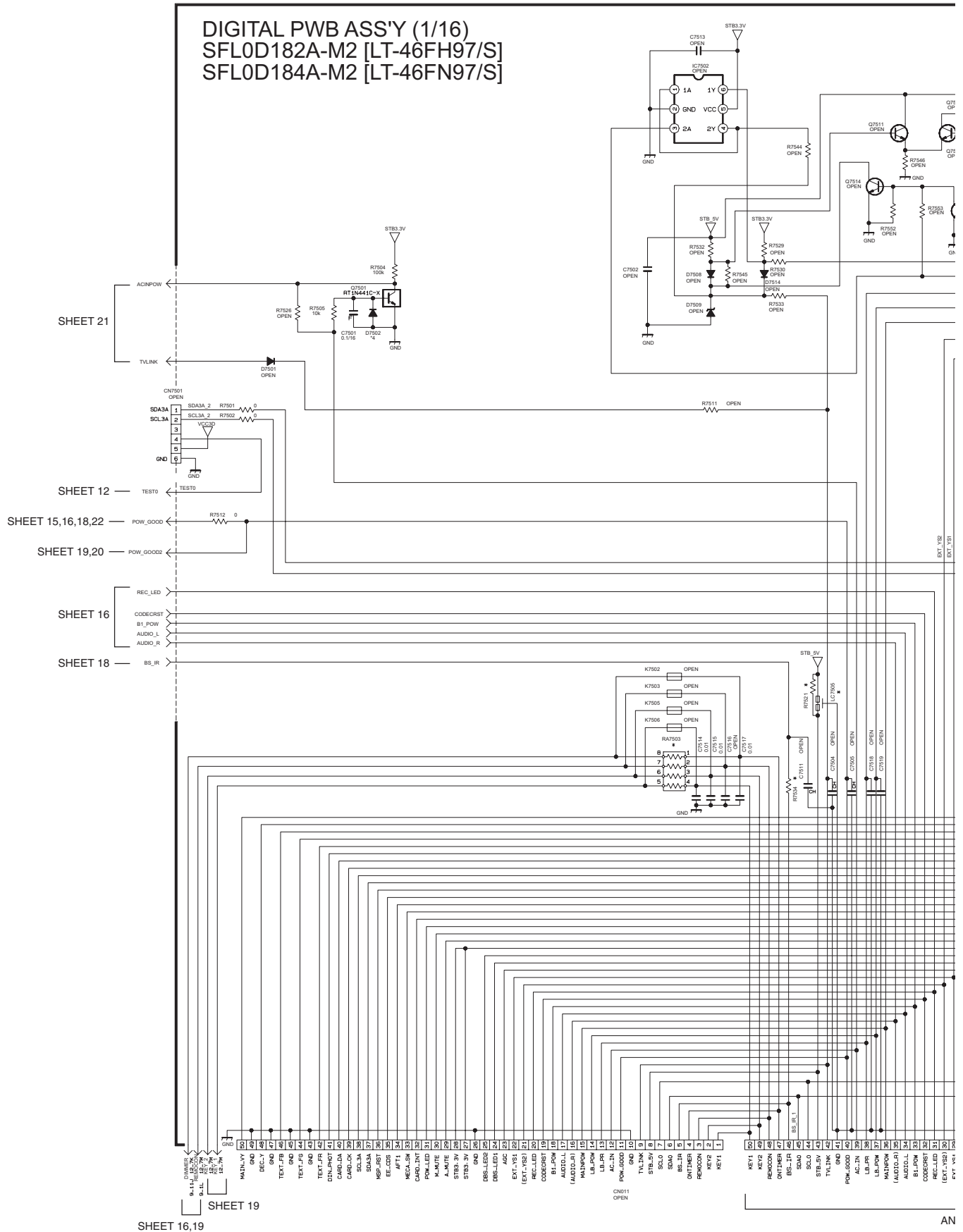


ANALOG PWB ASS'Y(6/6)  
SFL-1313A-M2 [LT-46FH97/S]  
SFL-1314A-M2 [LT-46FN97/S]



SHEET 1

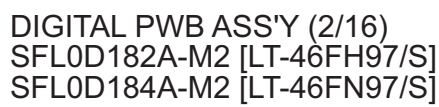








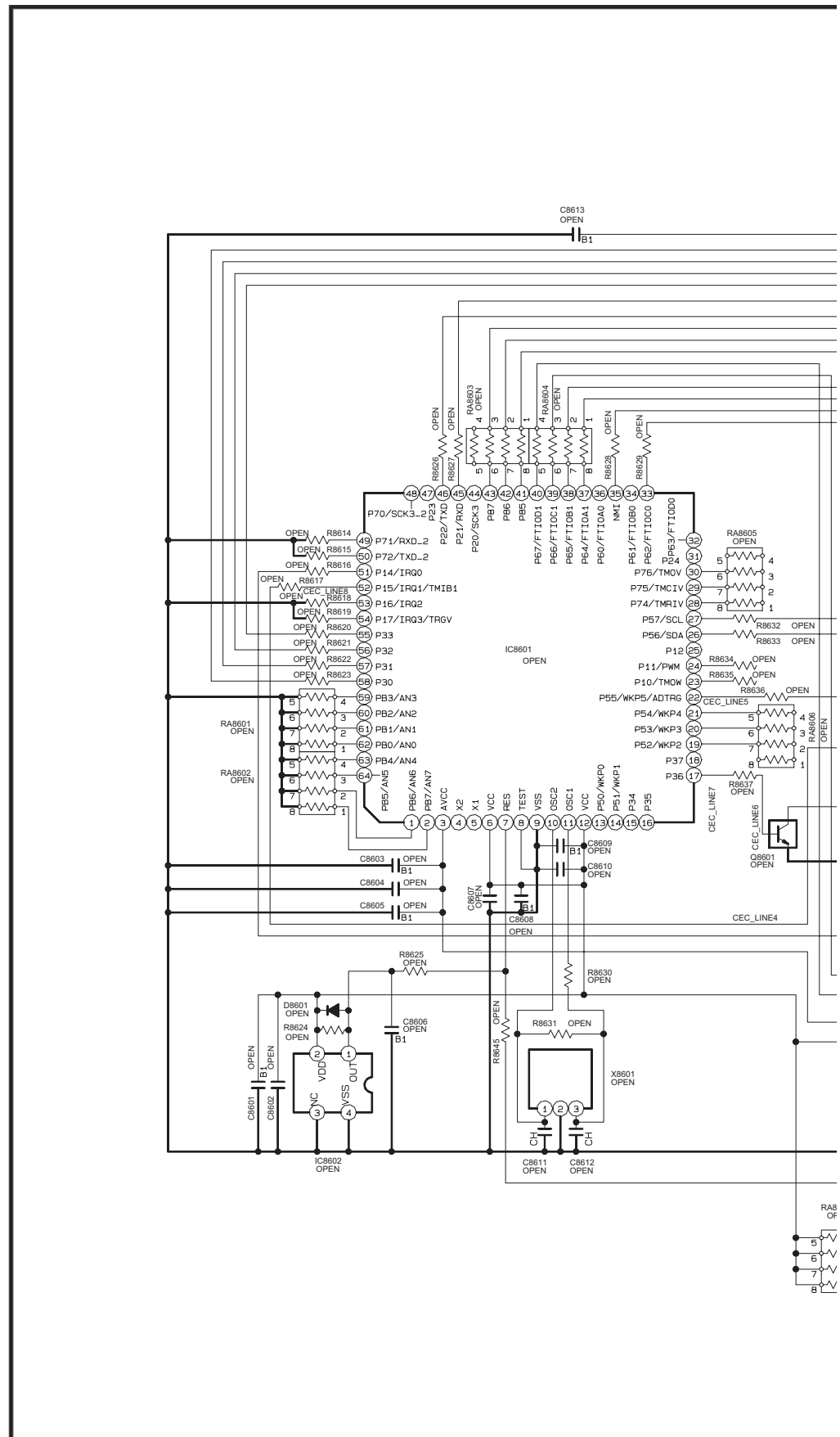










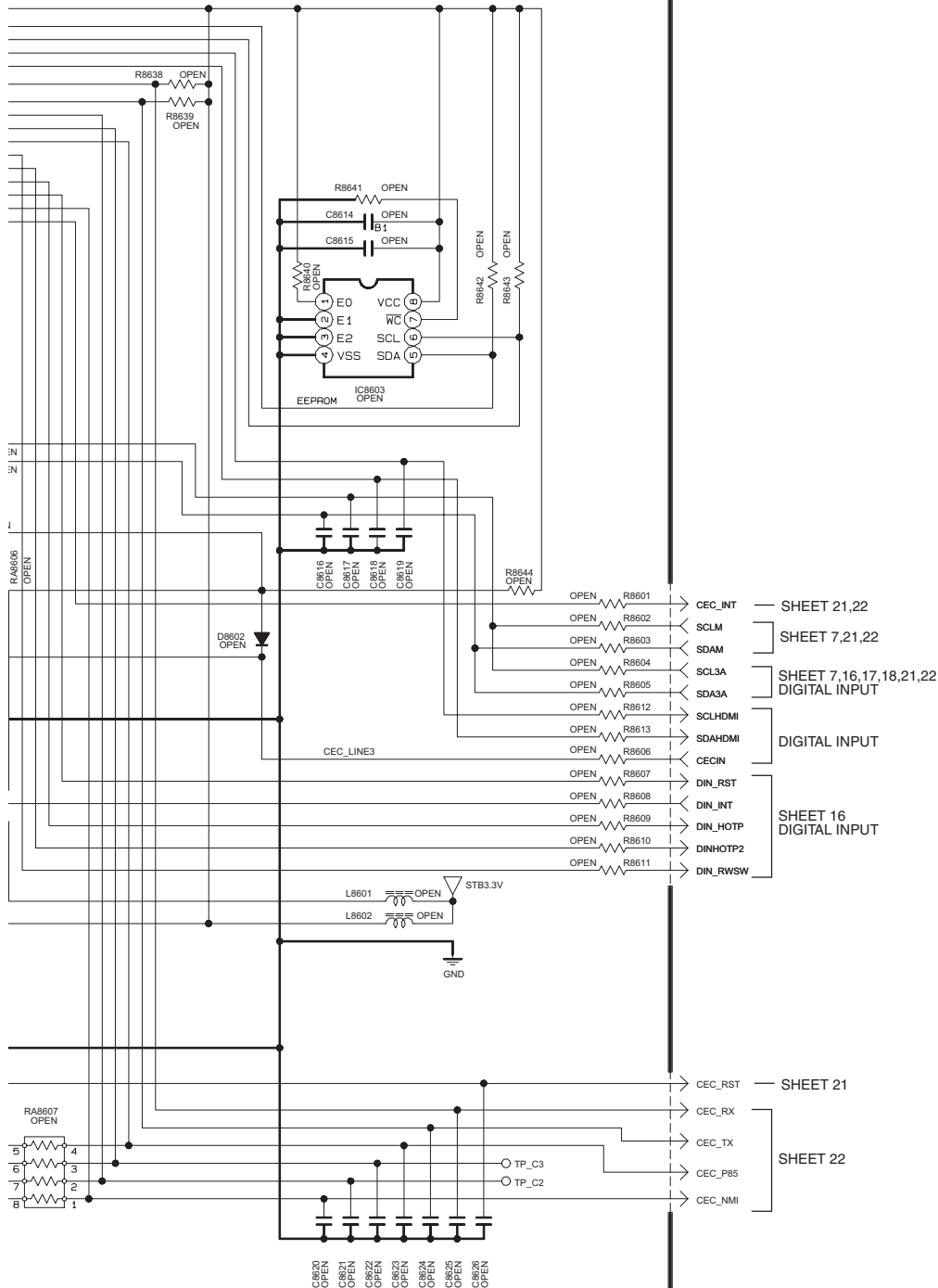




DIGITAL PWB ASS'Y (3/16)  
SFL0D182A-M2 [LT-46FH97/S]  
SFL0D184A-M2 [LT-46FN97/S]

NOTE.

\*1: NQR0498-001X  
\*2: NQR0489-002X  
\*4: MA111-X  
\*5: NQR0499-001X  
RA0: NRZ0034-OROW  
PNP: 2SA1530A/QR/-X  
NPN: 2SC3928A/QR/-X  
L10: NQL79GM-100X  
L22: NQL79GM-220X



c10463001a014\_0425\_14/17\_0.0





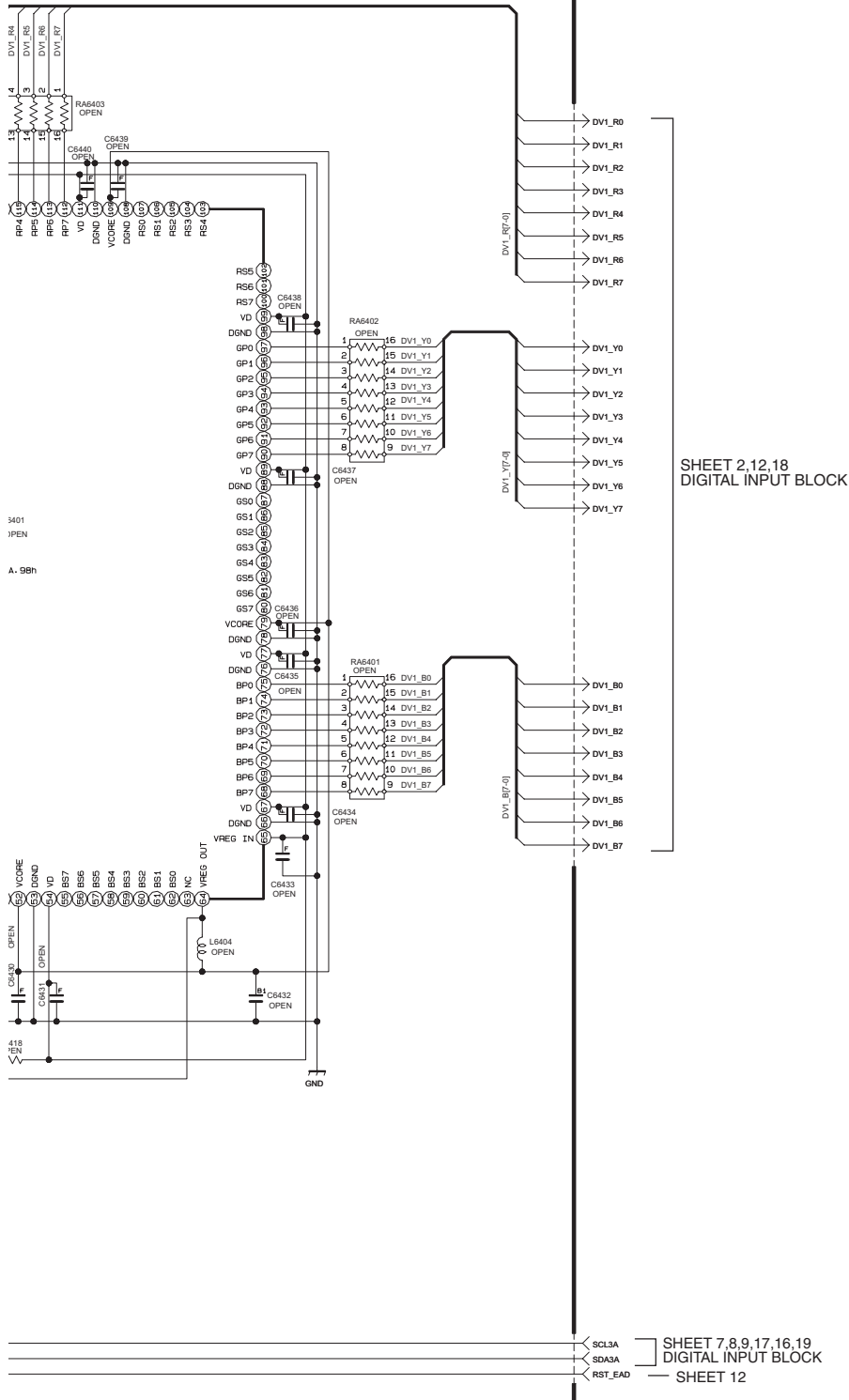
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NOTE.
*1: NGR0498-001X
*2: NGR0489-002X
*4: MA111-X
*5: NGR0499-001X
RA0: NRZ0034-0ROW
PNP: 2SA1530A/QR/-X
NPN: 2SC3928A/QR/-X
L10: LNL 79GM-100X
L22: NQL 79GM-220X

```



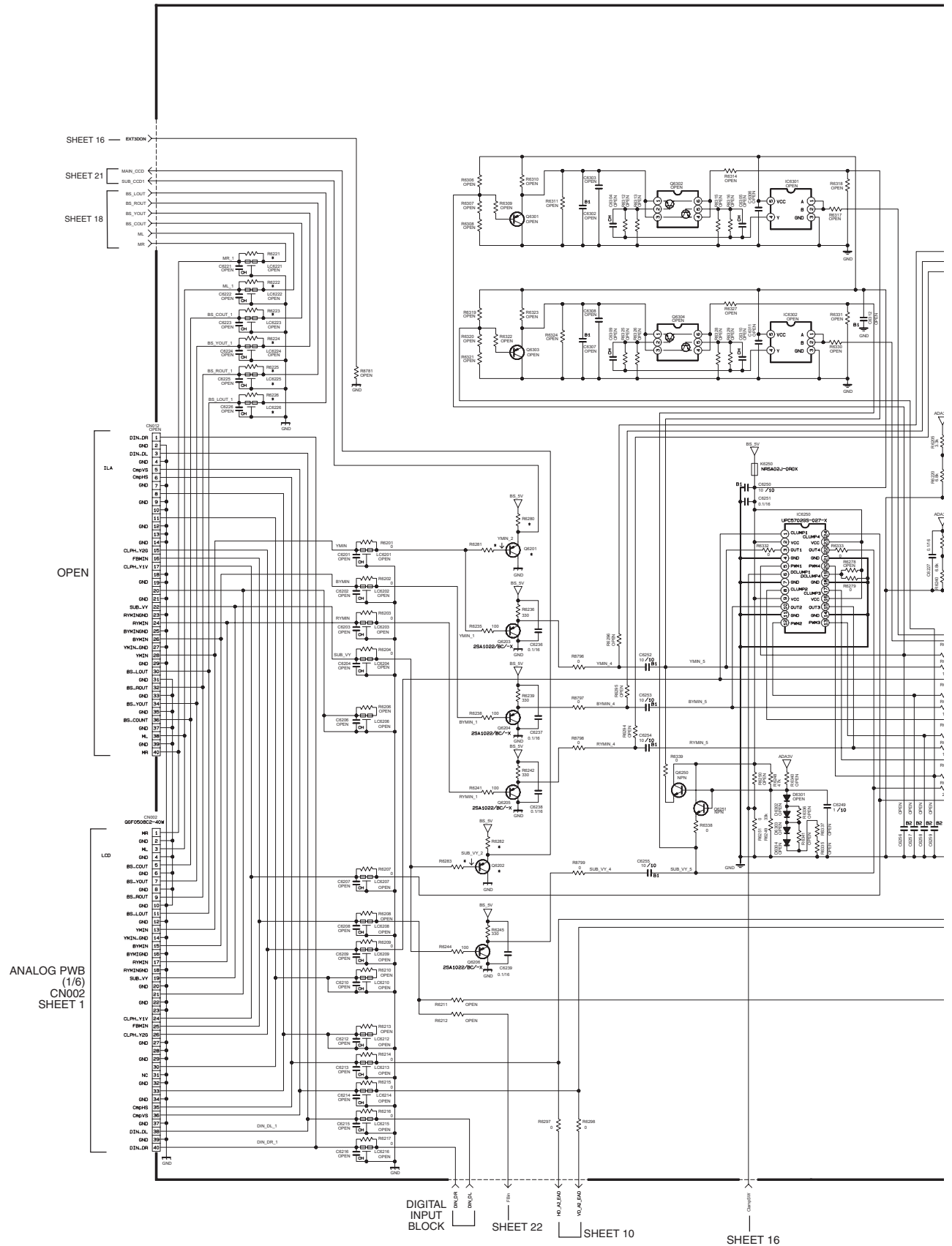
DIGITAL PWB ASS'Y (4/16)  
SFL0D182A-M2 [LT-46FH97/S]  
SFL0D184A-M2 [LT-46FN97/S]



c10463001a017\_0425\_17/17\_0.0

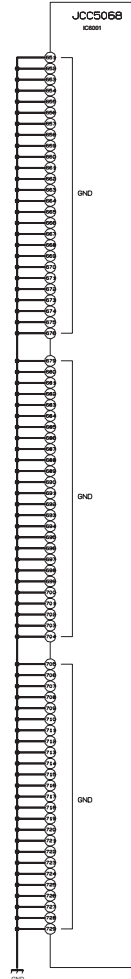
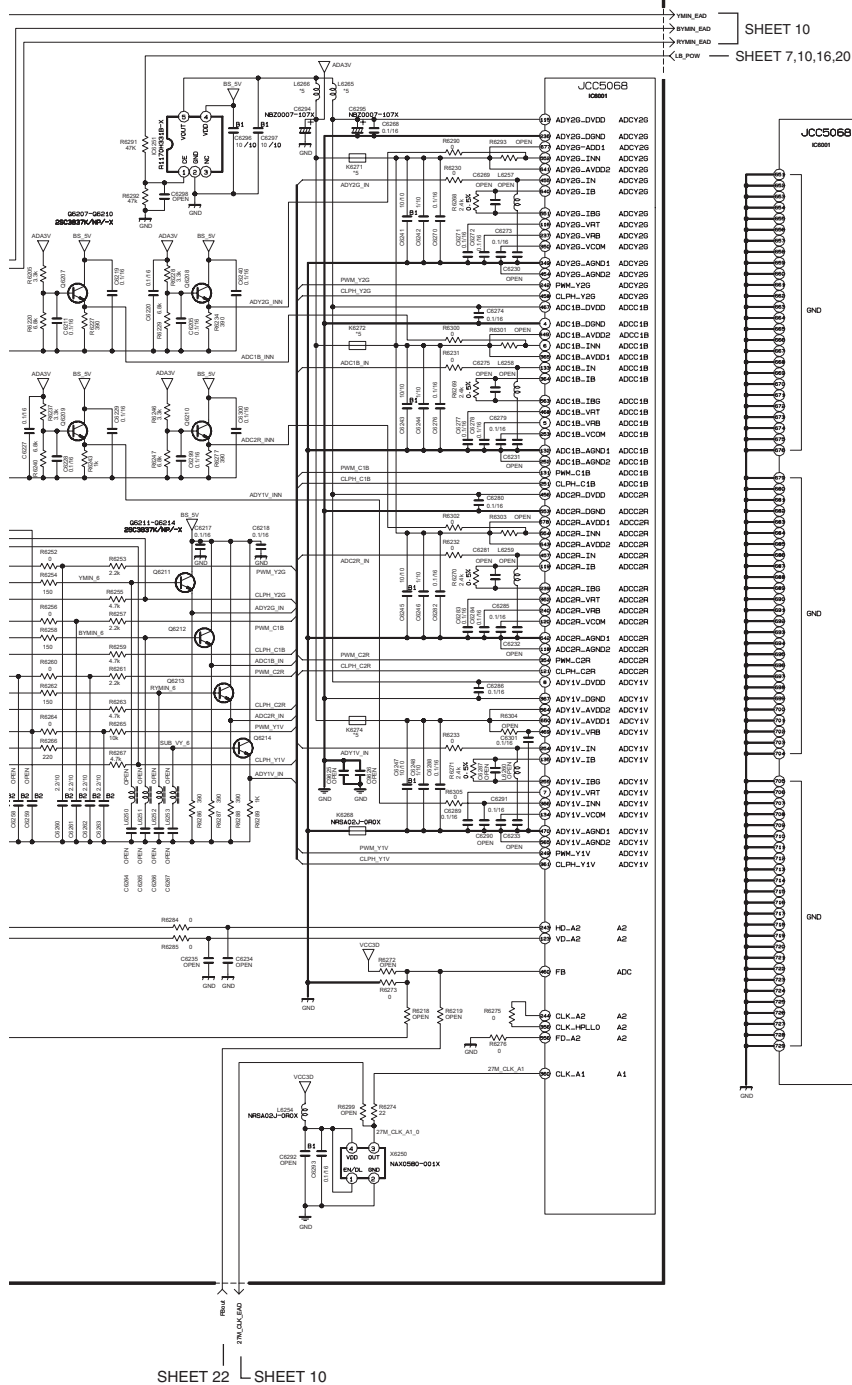


# DIGITAL PWB CIRCUIT DIAGRAM (5/16) SHEET 11





## \* DIFFERENCE LIST

[illegible]

ASSY NO. - MODEL LIST -

SFL-00182A (LCA10708-65A)	• • • LT-46FH97SA
SFL-00183A (LCA10708-67A)	• • • LT-40FH97SA
SFL-00184A (LCA10708-68A)	• • • LT-46FN97SA
SFL-00185A (LCA10708-69A)	• • • LT-40FN97SA

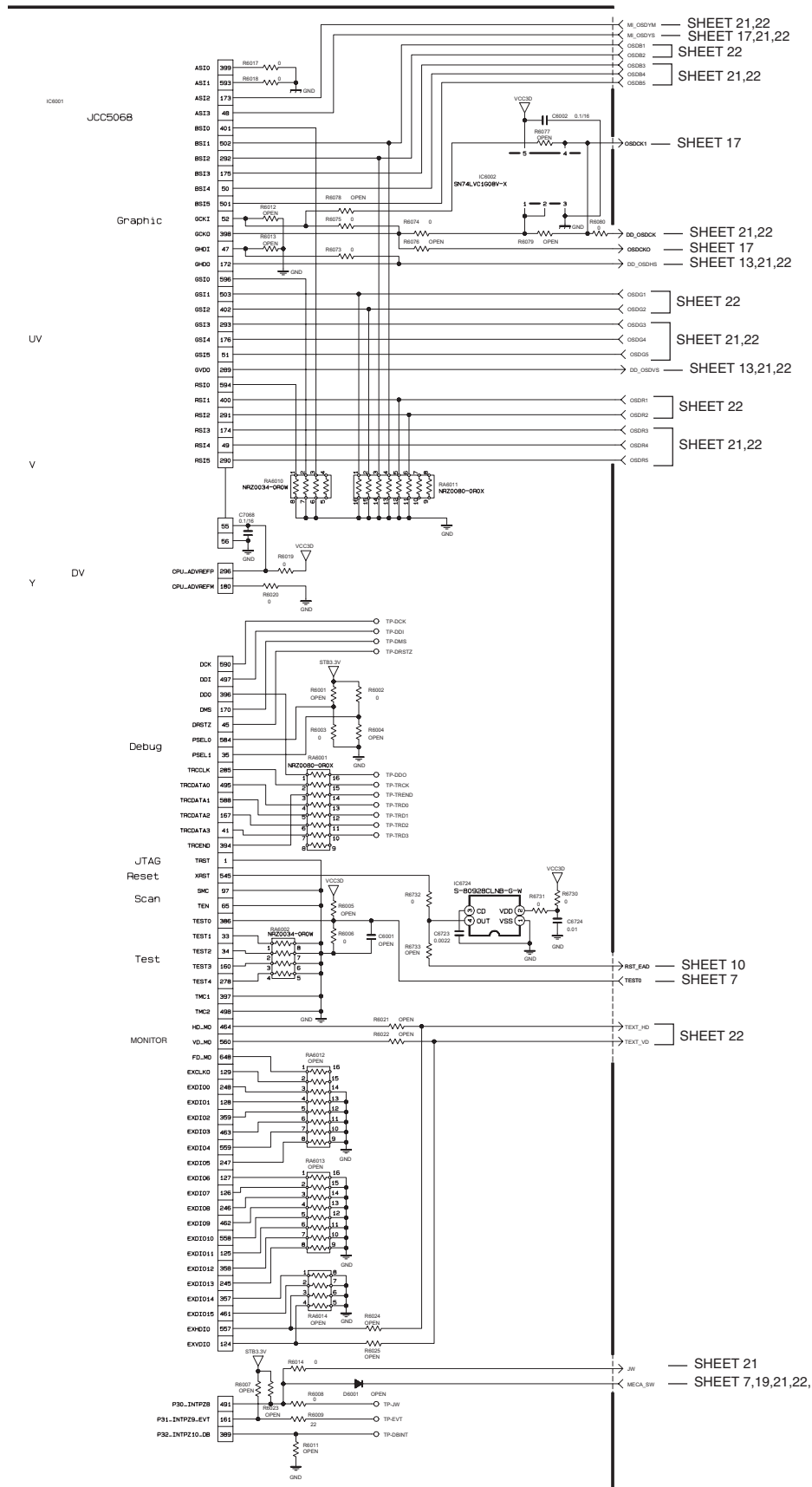
NOTE.

*1: NGR0498-001X
*2: NGR0489-002X
*4: MA111-X
*5: NGR0499-001X
RA0: NRZ0034-0R0W
PNP: 2SA1530A/QR/-
NPN: 2SC3928A/QR/-
L10: NQL79GM-100X
L22: NQL79GM-220X



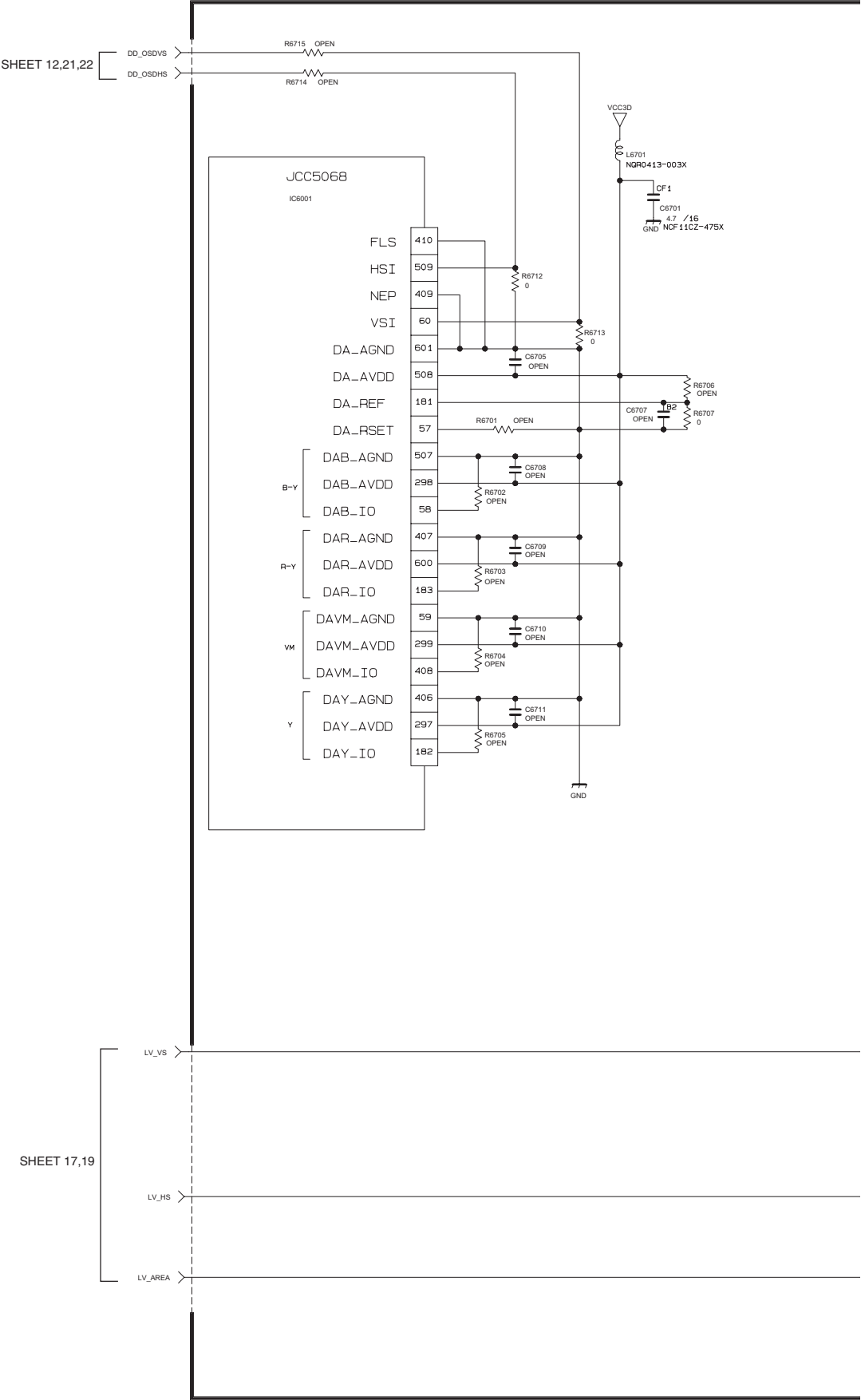






c10463001a002\_0425\_2/17\_0.0



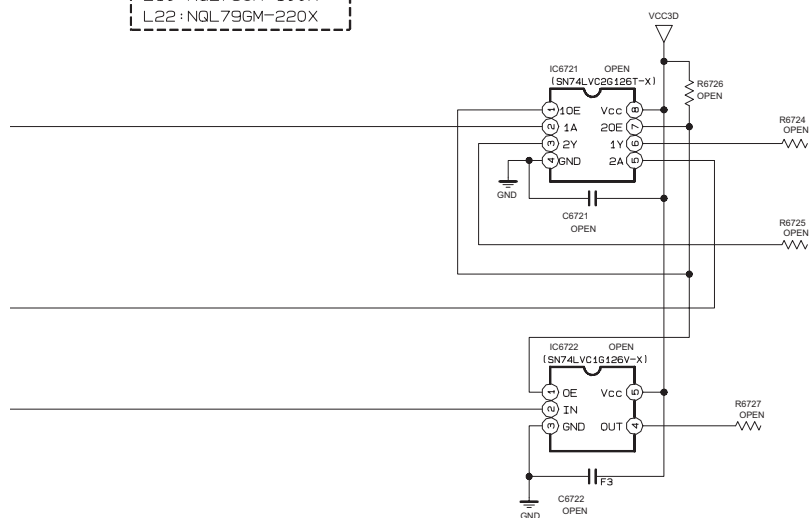




DIGITAL PWB ASS'Y (7/16)  
SFL0D182A-M2 [LT-46FH97/S]  
SFL0D184A-M2 [LT-46FN97/S]

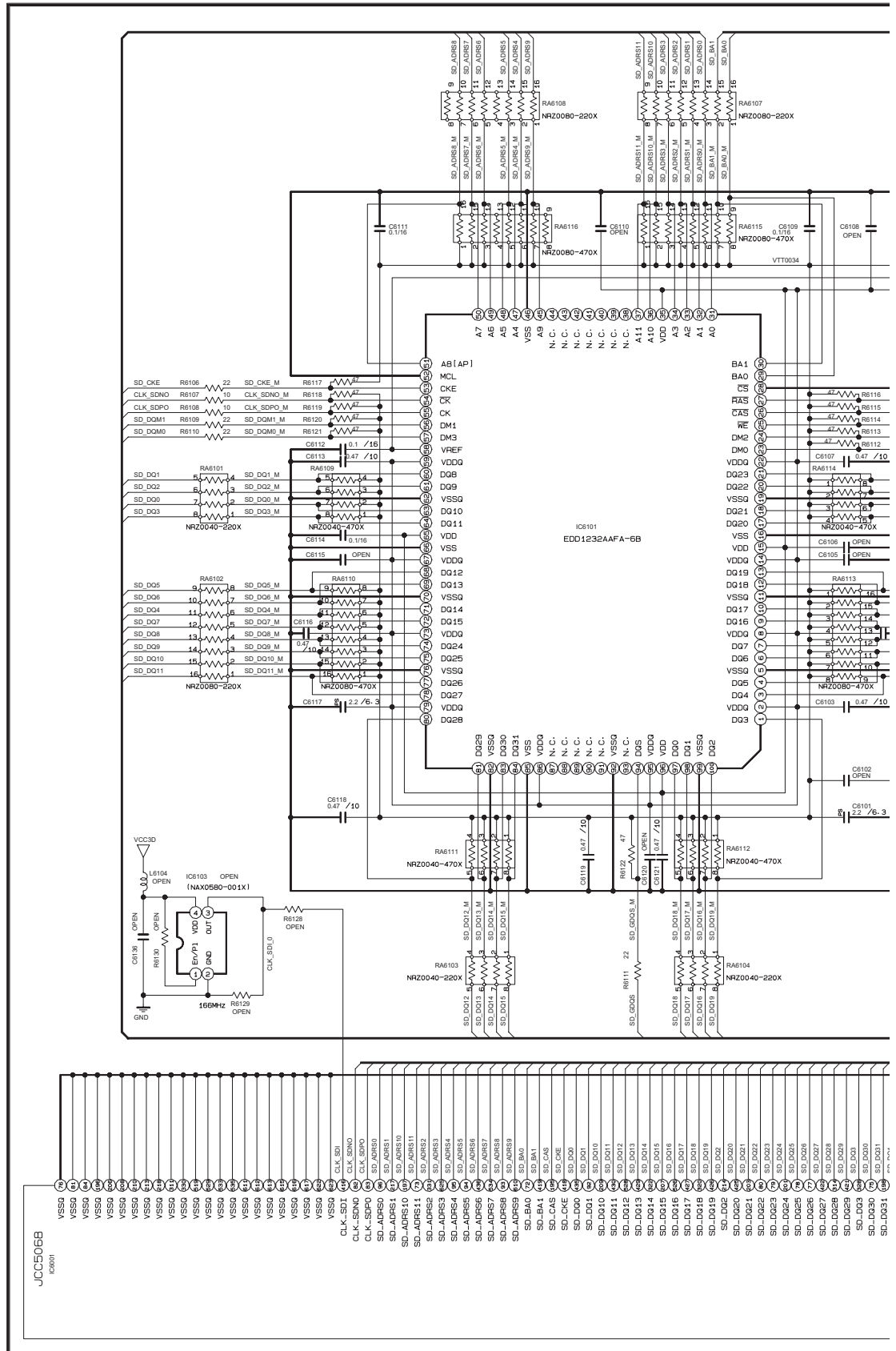
NOTE.

\*1:NQR049B-001X  
\*2:NQR0489-002X  
\*4:MA111-X  
\*5:NQR0499-001X  
RA0:NRZ0034-OROW  
PNP:2SA1530A/QR/-X  
NPN:2SC3928A/QR/-X  
L10:NQL79GM-100X  
L22:NQL79GM-220X



c10463001a005\_0425\_5/17\_0.0







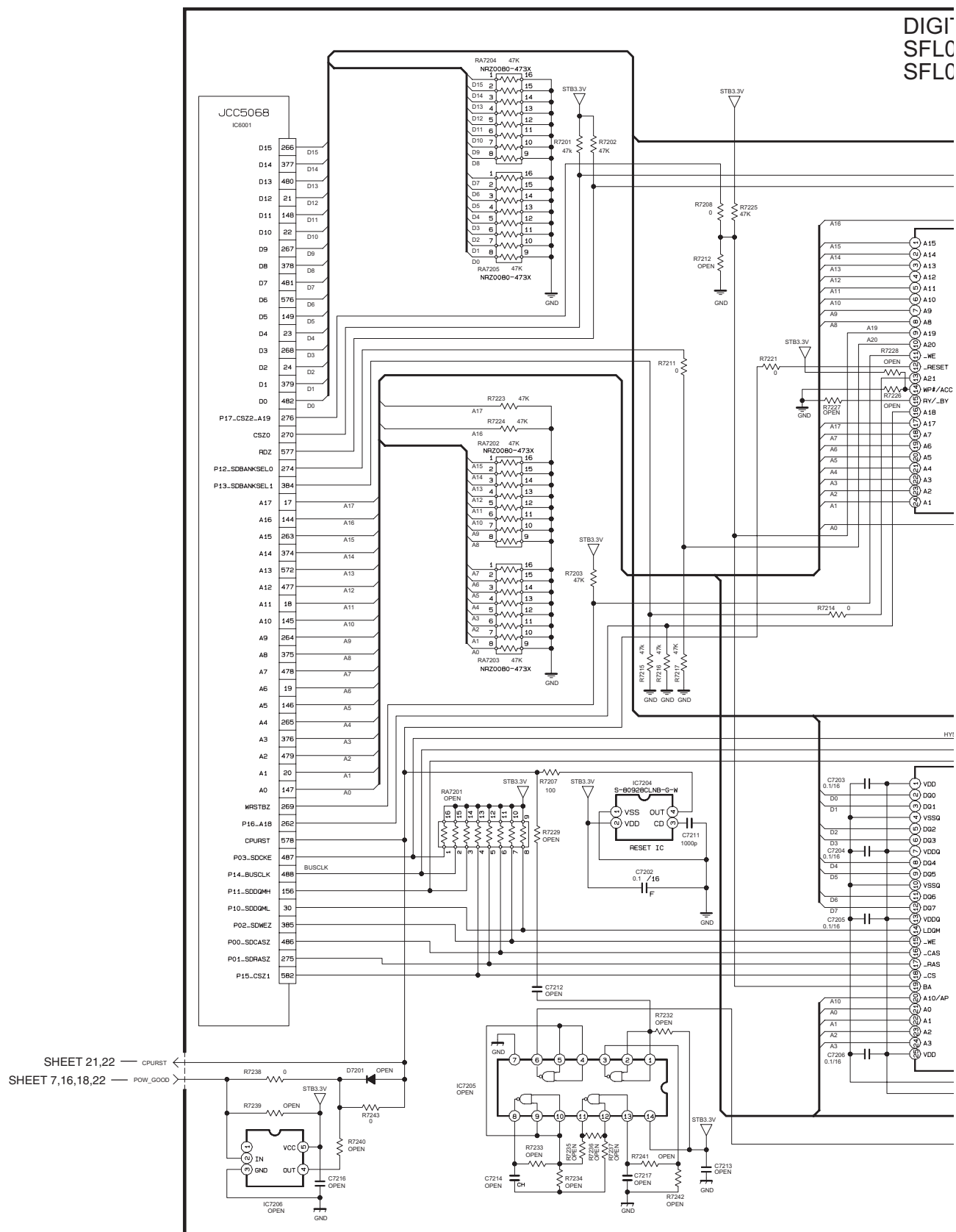
NOTE.

- \*1: NGR0498-001X
- \*2: NGR0489-002X
- \*4: MA111-X
- \*5: NGR0499-001X

RAO: NRZ0034-0R0W  
 PNP: 2SA1530A/GR/-X  
 NPN: 2SC3928A/GR/-X  
 L10: NGL79GM-100X  
 L22: NGL79GM-220X

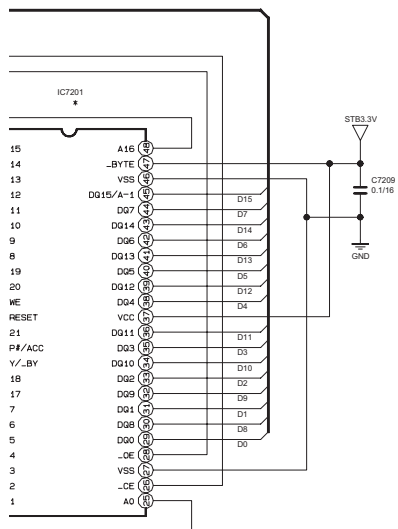
(No.YA432)2-34



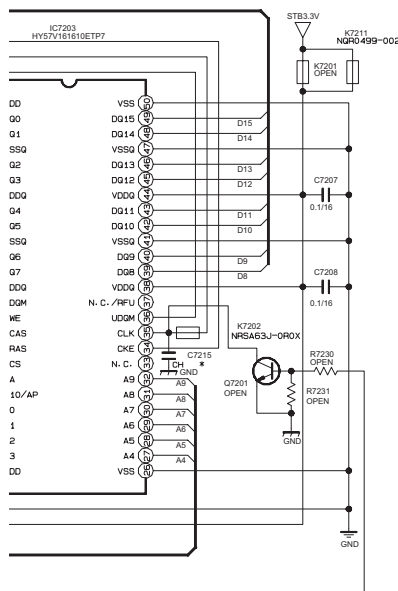




GITAL PWB ASS'Y (9/16)  
 \*L0D182A-M2 [LT-46FH97/S]  
 \*L0D184A-M2 [LT-46FN97/S]



\* DIFFERENCE LIST

[illegible]

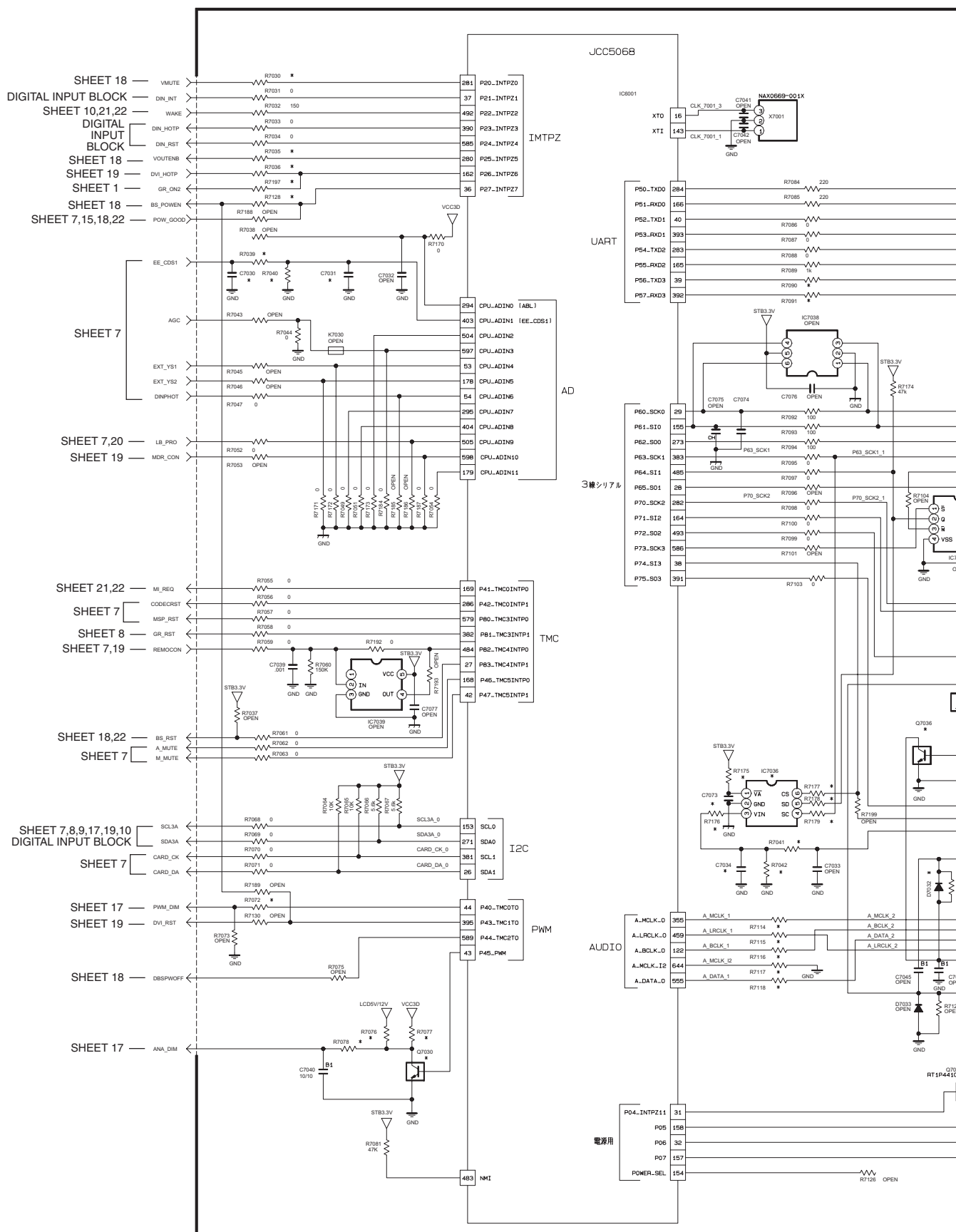
NOTE.

\*1: NQR0498-001X  
\*2: NQR0489-002X  
\*4: MA111-X  
\*5: NQR0499-001X  
RA0: NRZ0034-0ROW  
PNP: 2SA1530A/QR/-X  
NPN: 2SC3928A/QR/-X  
L10: NQL79GM-100X  
L22: NQL79GM-220X

## - ASSY NO. - MODEL LIST -

SFL-0D182A ... LT-46FH97SA  
[LCA1070B-68A]  
SFL-0D183A ... LT-40FH97SA  
[LCA1070B-67A]  
SFL-0D184A ... LT-46FN97SA  
[LCA1070B-68A]  
SFL-0D185A ... LT-40FN97SA  
[LCA1070B-68A]



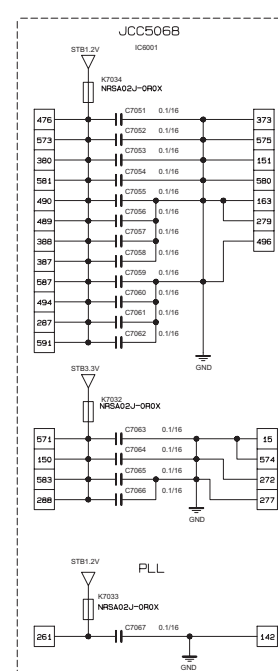




[illegible][illegible]

SFL-0D182A \*\*\* LT-46FH97SA  
(LCA10708-66A)  
SFL-0D183A \*\*\* LT-40FH97SA  
(LCA10708-67A)  
SFL-0D184A \*\*\* LT-46FN97SA  
(LCA10708-68A)  
SFL-0D185A \*\*\* LT-40FN97SA  
(LCA10708-69A)

\*1: NGR0498-001X  
\*2: NGR0489-002X  
\*4: MA111-X  
\*5: NGR0499-001X  
RA0: NRZ0034-0R0W  
PNP: 2SA1530A/QR/-X  
NPN: 2SC3928A/QR/-X  
L10: NQL79GM-100X  
L22: NQL79GM-220X



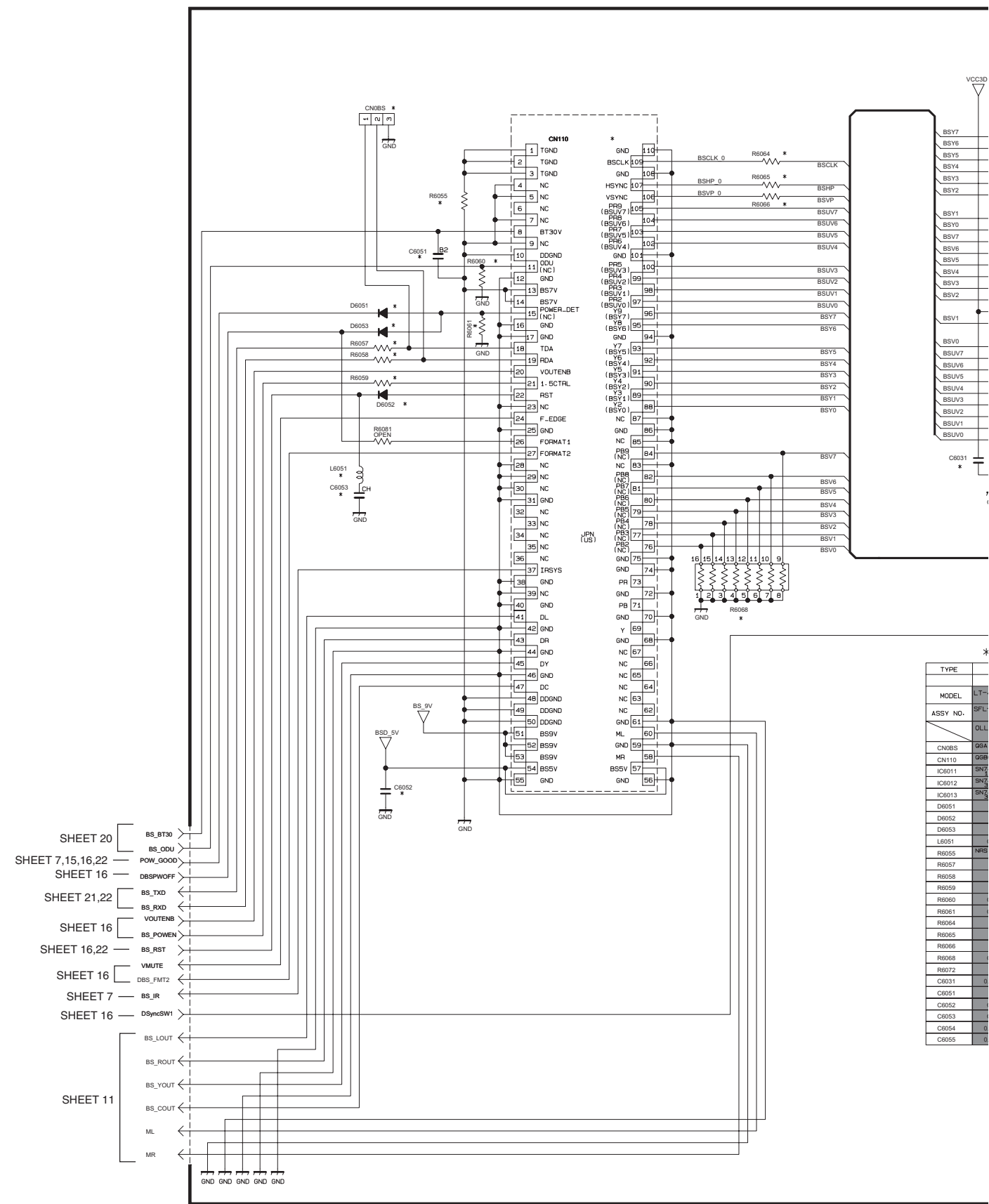








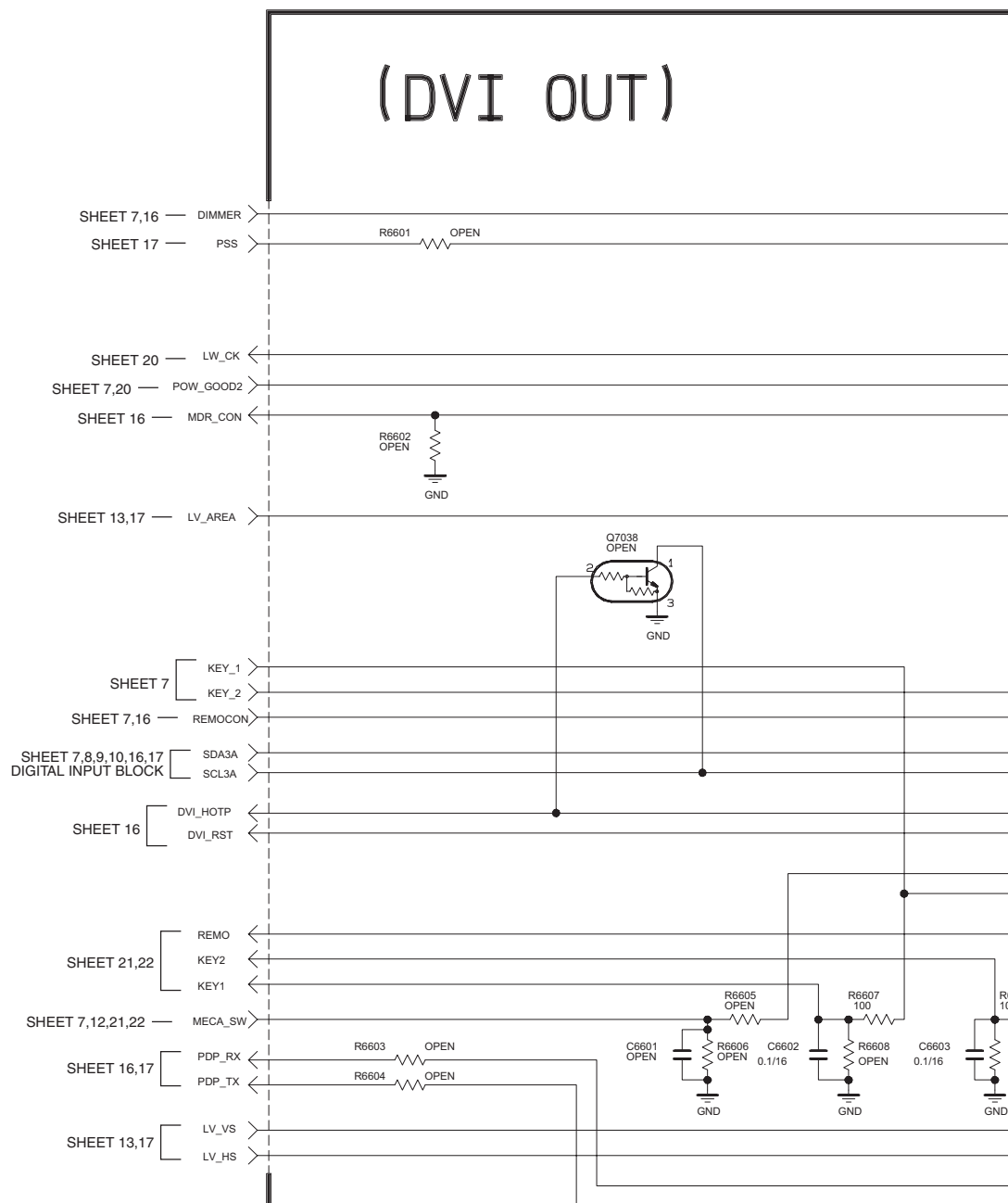










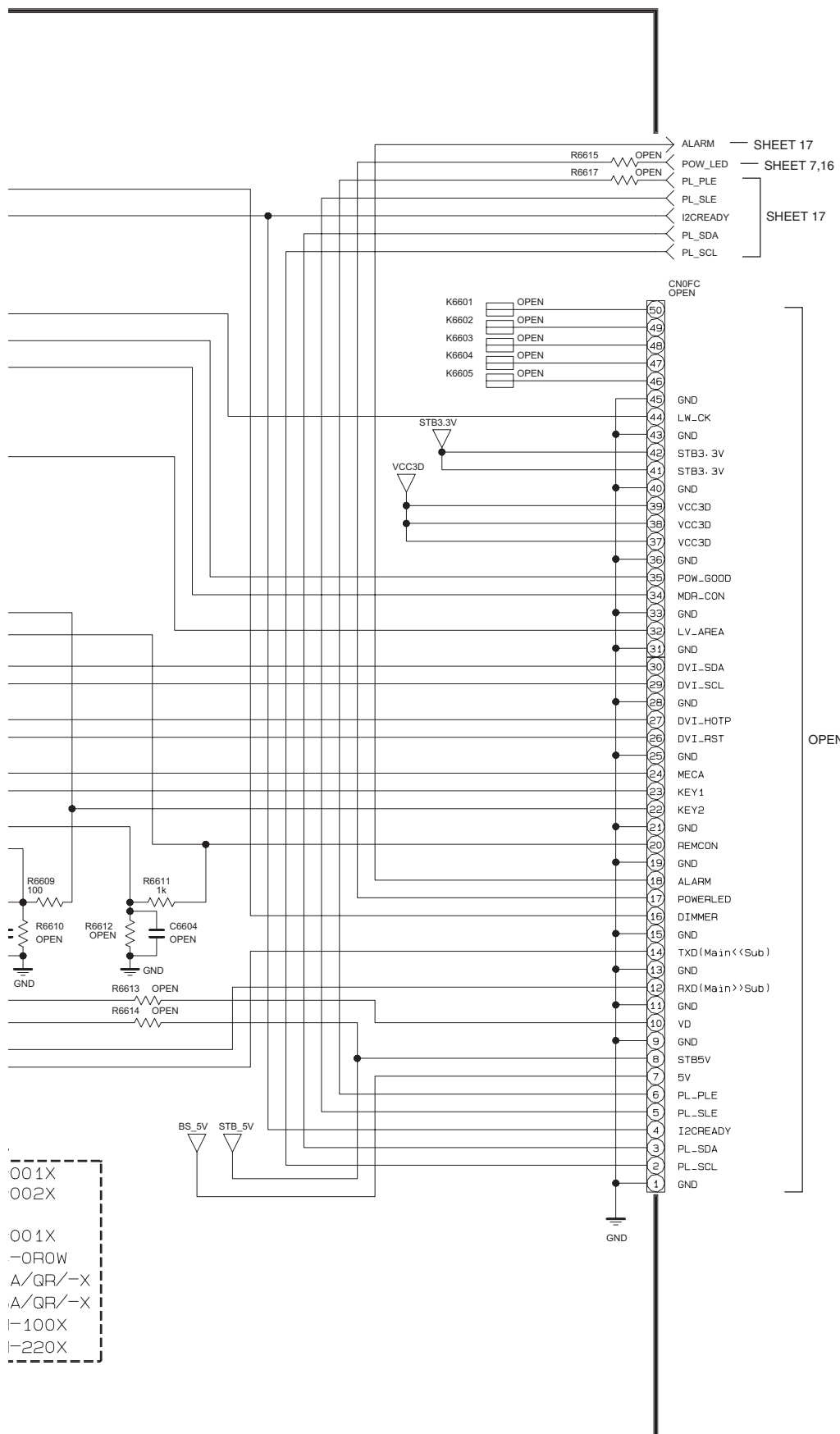


NOTE.

\*1: NQR0498-00:  
 \*2: NQR0489-002  
 \*4: MA111-X  
 \*5: NQR0499-00:  
 RA0: NRZ0034-0F  
 PNP: 2SA1530A/C  
 NPN: 2SC3928A/C  
 L10: NQL79GM-1C  
 L22: NQL79GM-2C

DIGITAL PWB ASS'Y (13/16)  
 SFL0D182A-M2 [LT-46FH97/S]  
 SFL0D184A-M2 [LT-46FN97/S]



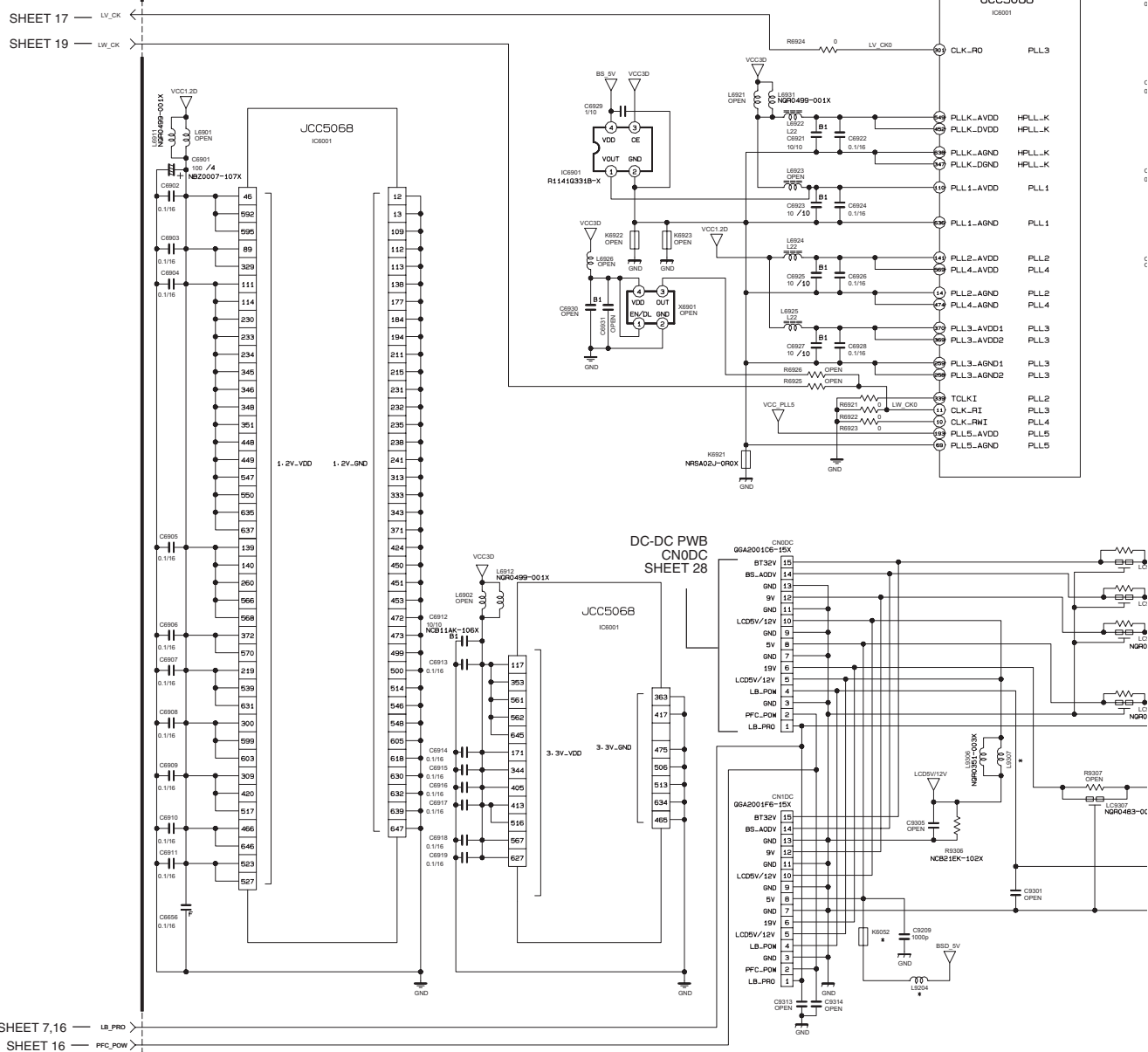


c10463001a012\_0425\_12/17\_0.0



## \* DIFFERENCE LIST

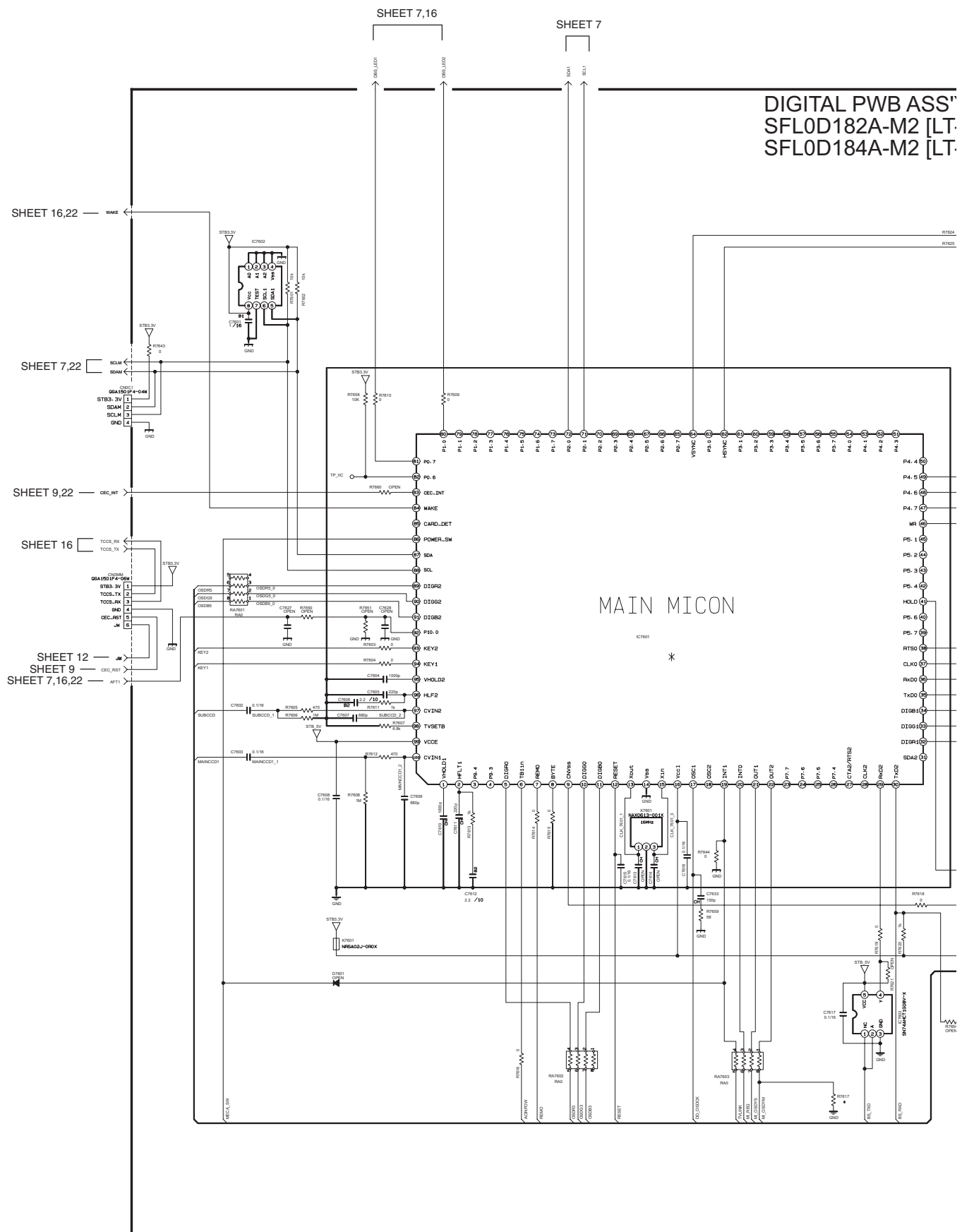
ASSY NO.	MODEL LIST
SFL-0D182A (LCA1070B-66A)	... LT-46FH97SA
SFL-0D183A (LCA1070B-67A)	... LT-40FH97SA
SFL-0D184A (LCA1070B-68A)	... LT-46FN97SA
SFL-0D185A (LCA1070B-69A)	... LT-40FN97SA





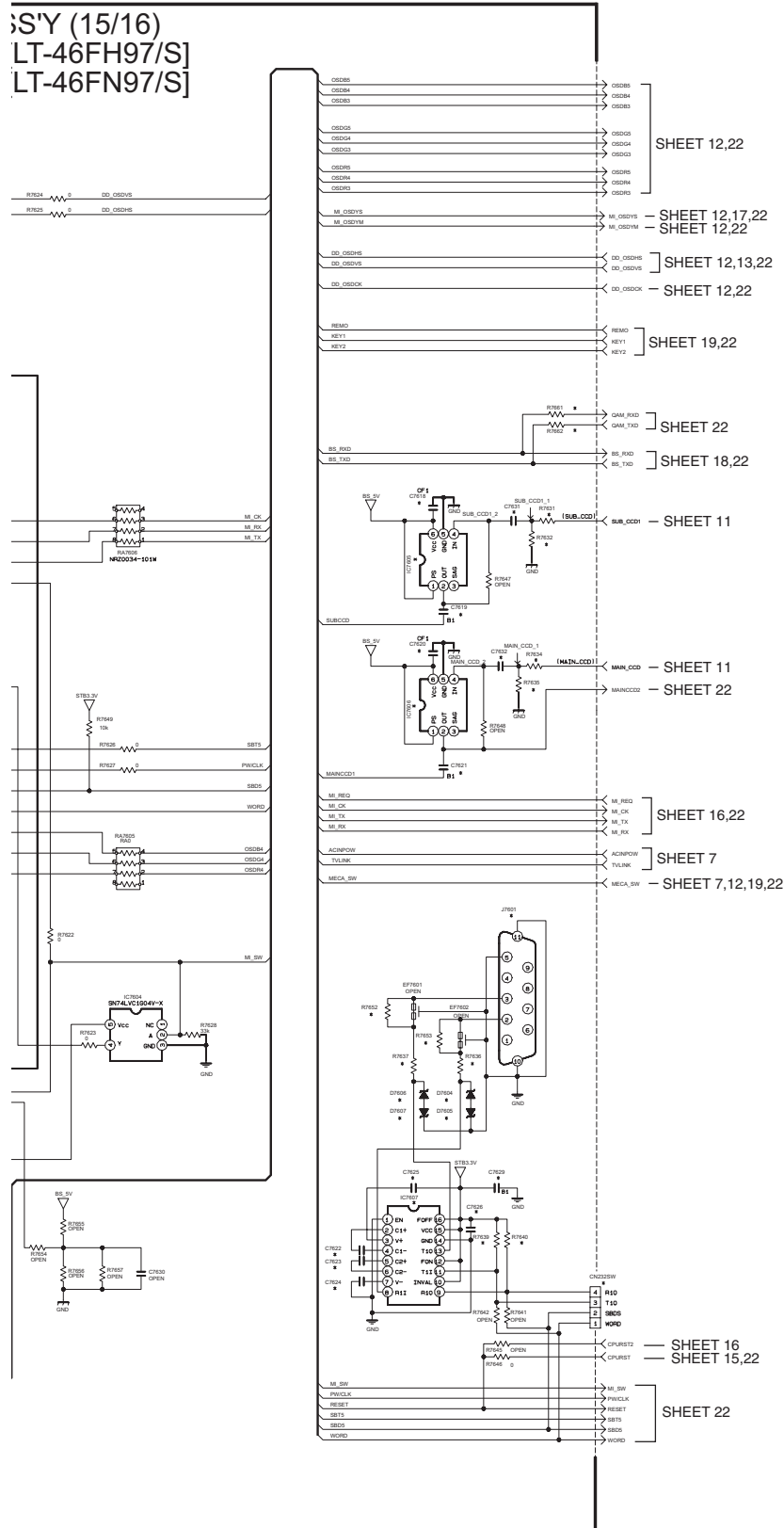








NOTE : Refer to the part list for the part number of IC7602.



## \* DIFFERENCE LIST

[illegible]

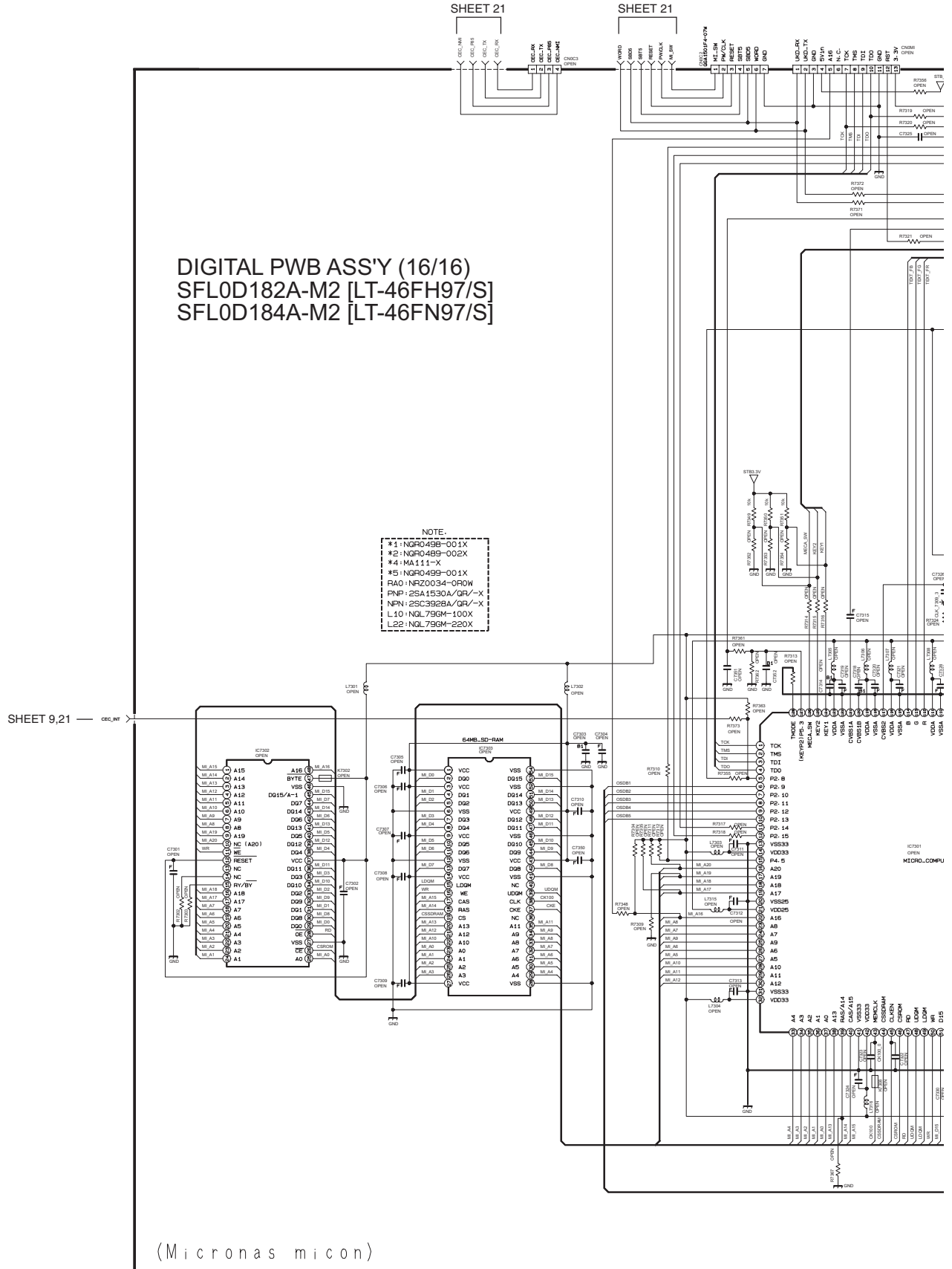
- ASSY NO. - MODEL LIST -

SFL-0D182A \*\*\* LT-46FH97SA  
(LCA10709-68A)  
SFL-0D183A \*\*\* LT-40FH97SA  
(LCA10709-67A)  
SFL-0D184A \*\*\* LT-46FN97SA  
(LCA10709-68A)  
SFL-0D185A \*\*\* LT-40FN97SA  
(LCA10709-69A)

NOTE.

```
*1: NGR0498-001X
*2: NGR0489-002X
*4: MA111-X
*5: NGR0499-001X
RA0: NRZ0034-0R0W
PNP: 2SA1530A/GP/-X
NPN: 2SC3928A/GP/-X
L10: NGL79GM-100X
L22: NGL79GM-220X
```

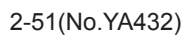






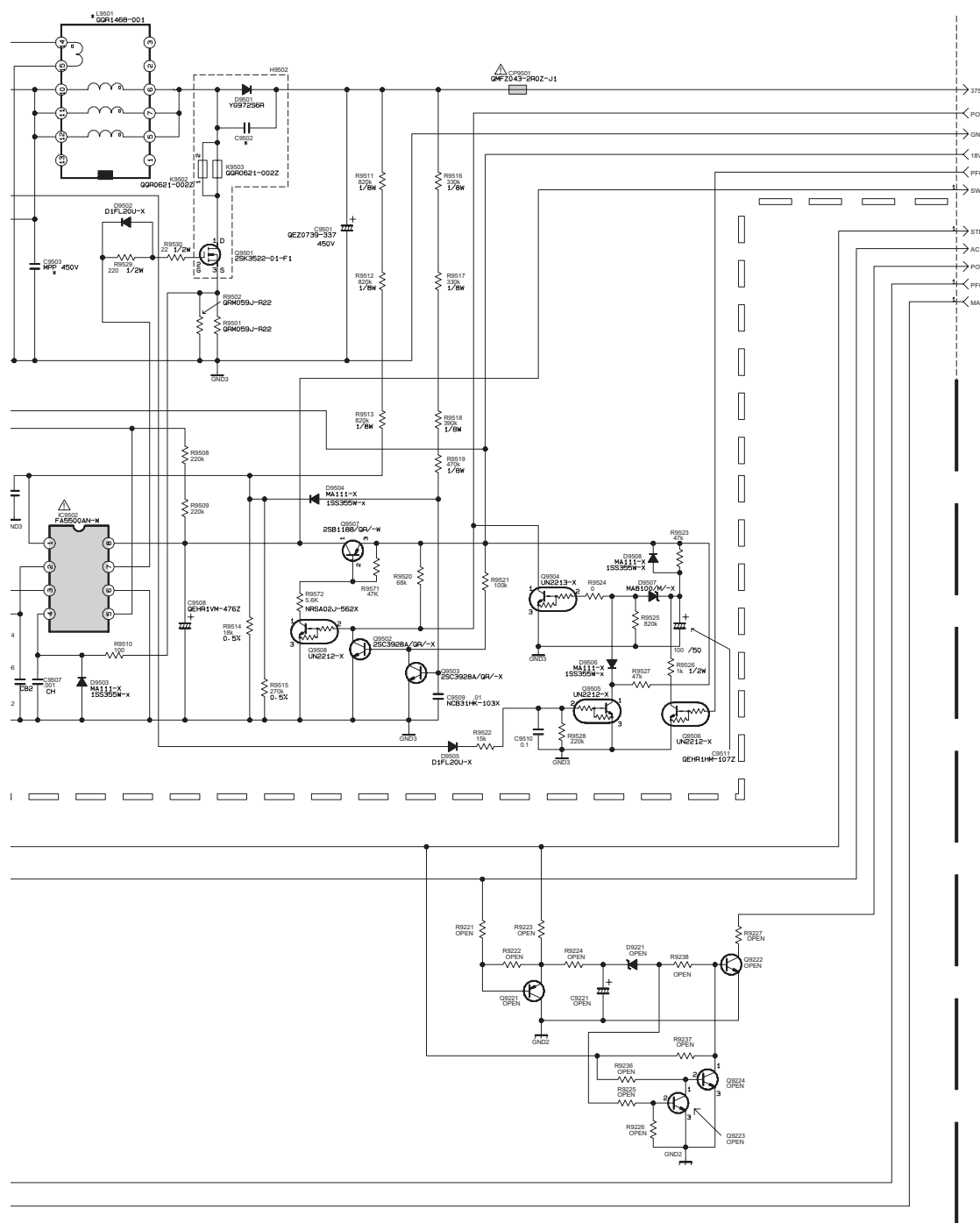








MAIN POWER PWB ASS'Y (1/2)  
SFL-9054A-M2

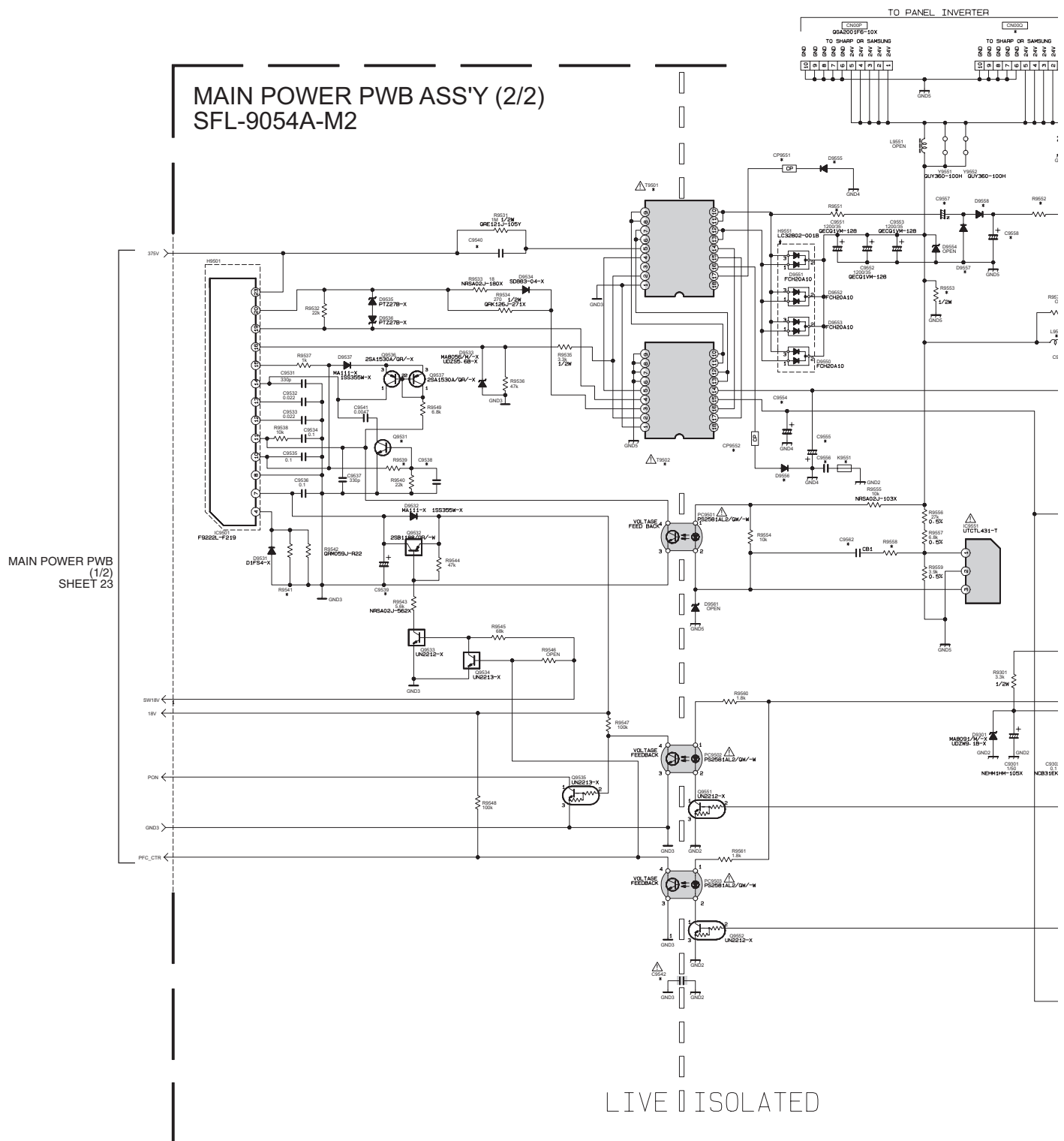


MAIN POWER PWB(2/2)  
SHEET 24

\* DIFFERENCE LIST

[illegible]

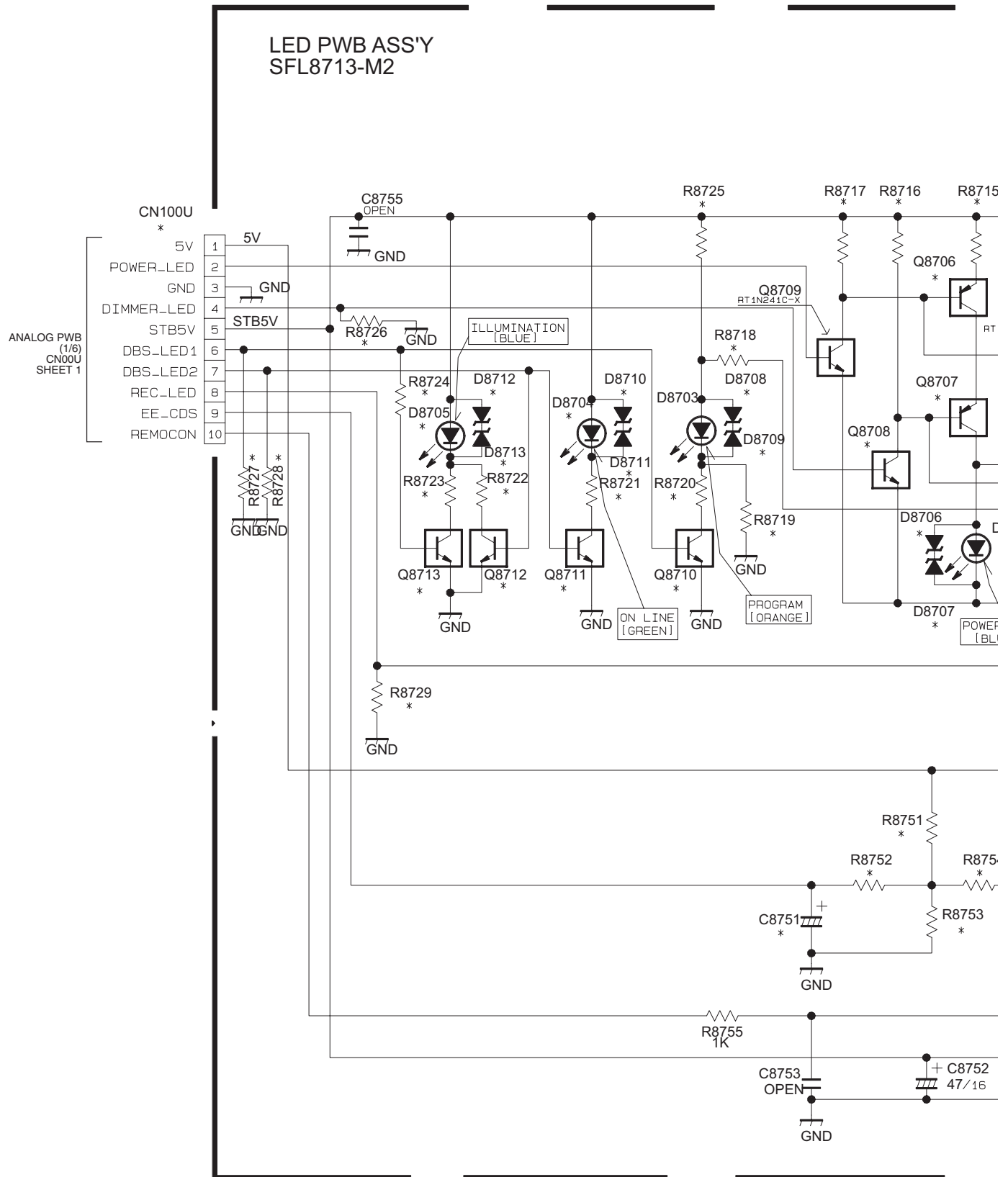




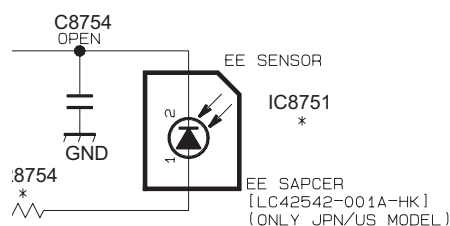
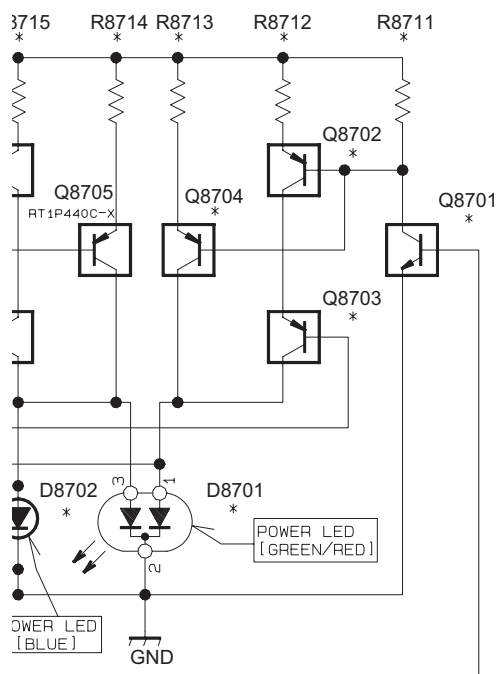




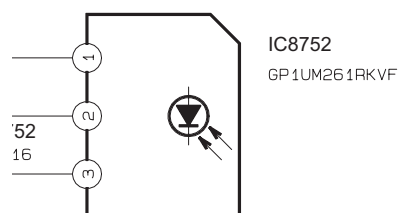








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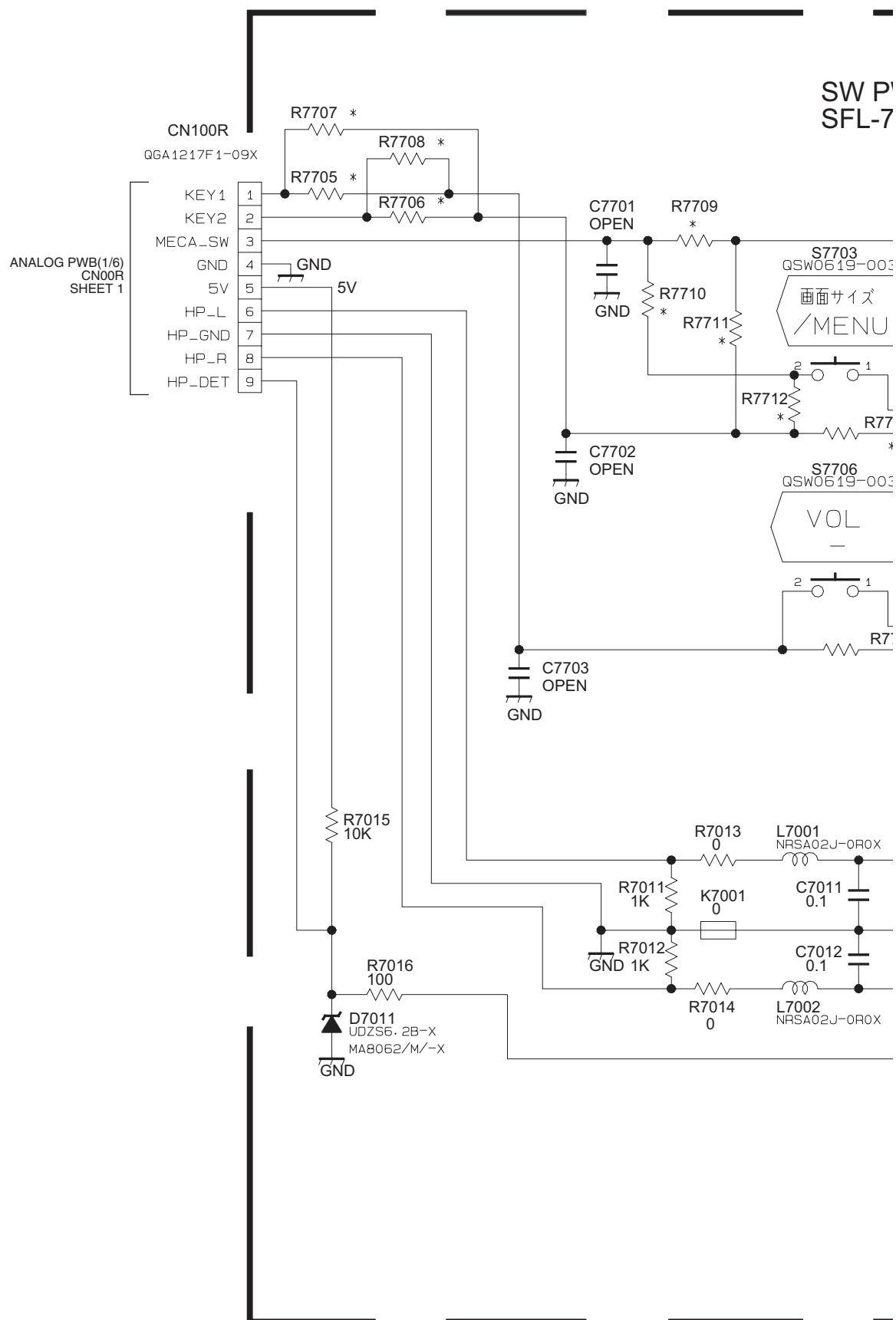


## \*DIFFERENCE LIST

NOTE	IDTV26/32 37/46	NON-IDTV26/32 37/46	JPN46	US (X987)	US46	ASIA32
ASSY NO.	SFL-8703A SFL-8716A	SFL-8710A SFL-8717A	SFL-8711A	SFL-8714A	SFL-8713A	SFL-8706A
	OLLC09103 -07/-13	OLLC09103 -08/-14	OLLC10588	OLLC10588 -03	OLLC10588 -02	OLLC09806
D8701	SML72420C-T	OPEN	SML72420C-T	OPEN	OPEN	OPEN
D8702	OPEN	SEL5E20C-T	OPEN	SEL5E20C-T	SEL5E20C-T	SEL5E20C-T
D8703	OPEN	OPEN	SEL5920A-T	OPEN	SEL5920A-T	OPEN
D8704	OPEN	OPEN	SEL5420E-T	OPEN	OPEN	OPEN
D8705	SELU5E20C-T	SELU5E20C-T	OPEN	OPEN	SELU5E20C-T	SELU5E20C-T
D8706	OPEN	MA8068-X	OPEN	MA8068-X	MA8068-X	MA8068-X
D8707	OPEN	MA8068-X	OPEN	MA8068-X	MA8068-X	MA8068-X
D8708	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
D8709	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
D8710	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
D8711	OPEN	OPEN	OPEN	OPEN	OPEN	OPEN
D8712	MA8068-X	MA8068-X	OPEN	OPEN	MA8068-X	MA8068-X
D8713	MA8068-X	MA8068-X	OPEN	OPEN	MA8068-X	MA8068-X
Q8701	RT1P440C-X	OPEN	RT1N241C-X	OPEN	RT1N241C-X	OPEN
Q8702	OPEN	OPEN	OPEN	OPEN	RT1P440C-X	OPEN
Q8703	OPEN	OPEN	OPEN	OPEN	RT1P440C-X	OPEN
Q8704	RT1P440C-X	OPEN	RT1P440C-X	OPEN	RT1P440C-X	OPEN
Q8706	OPEN	OPEN	OPEN	RT1P440C-X	RT1P440C-X	OPEN
Q8707	OPEN	OPEN	OPEN	RT1P440C-X	RT1P440C-X	OPEN
Q8708	OPEN	OPEN	OPEN	RT1N241C-X	RT1N241C-X	OPEN
Q8710	OPEN	OPEN	RT1N241C-X	OPEN	OPEN	OPEN
Q8711	OPEN	OPEN	RT1N241C-X	OPEN	OPEN	OPEN
Q8712	RT1N241C-X	RT1N241C-X	OPEN	OPEN	RT1N241C-X	RT1N241C-X
Q8713	RT1N241C-X	RT1N241C-X	OPEN	OPEN	RT1N241C-X	RT1N241C-X
R8711	10K	OPEN	10K	OPEN	10K	OPEN
R8712	OPEN	OPEN	OPEN	OPEN	470	OPEN
R8713	330	OPEN	330	OPEN	1K	OPEN
R8714	330	330	330	1K	1K	330
R8715	OPEN	OPEN	OPEN	470	470	OPEN
R8716	OPEN	OPEN	OPEN	10K	10K	OPEN
R8717	10K	10K	10K	10K	10K	10K
R8718	OPEN	OPEN	OPEN	OPEN	0	OPEN
R8719	OPEN	OPEN	OPEN	OPEN	0	OPEN
R8720	OPEN	OPEN	330	OPEN	OPEN	OPEN
R8721	OPEN	OPEN	330	OPEN	OPEN	OPEN
R8722	100	100	OPEN	OPEN	100	100
R8723	270	270	OPEN	OPEN	270	270
R8724	0	0	OPEN	OPEN	0	0
R8725	OPEN	OPEN	0	OPEN	OPEN	OPEN
R8726	OPEN	OPEN	0	OPEN	OPEN	OPEN
R8727	OPEN	OPEN	OPEN	0	0	OPEN
R8728	OPEN	OPEN	OPEN	0	0	OPEN
R8729	OPEN	OPEN	OPEN	0	0	OPEN
IC8751	OPEN	OPEN	S9648	S9648	S9648	OPEN
R8751	OPEN	OPEN	270K	270K	270K	OPEN
R8752	OPEN	OPEN	100	100	100	OPEN
R8753	OPEN	OPEN	68K	68K	68K	OPEN
R8754	OPEN	OPEN	33K	33K	33K	OPEN
C8751	OPEN	OPEN	NEHL1EM-226X	NEHL1EM-226X	NEHL1EM-226X	OPEN
CN200U	GGA1217F1 -10X	GGA1217F1 -10X	GGA1217F1 -10X	GGA1217F1 -10X	GGA1217F1 -10X	GGA1217F1 -10X

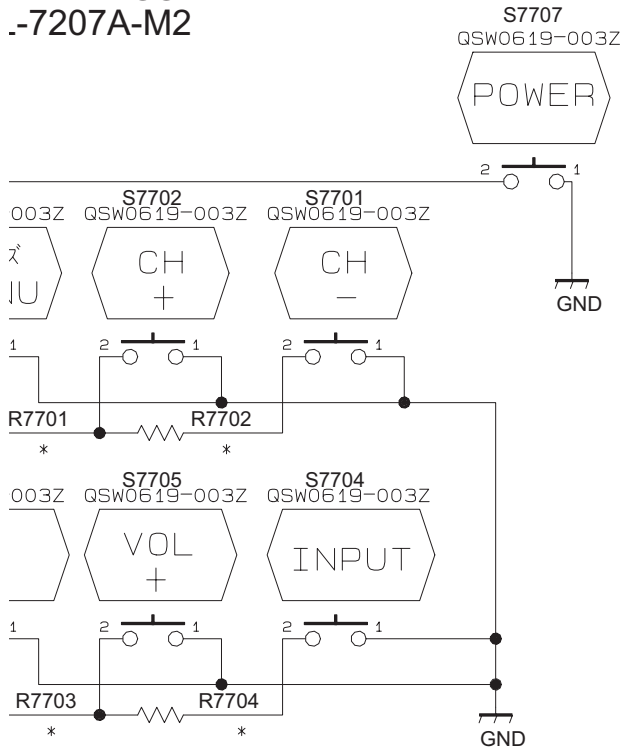
c30204001c01\_0606\_1/1\_0.0





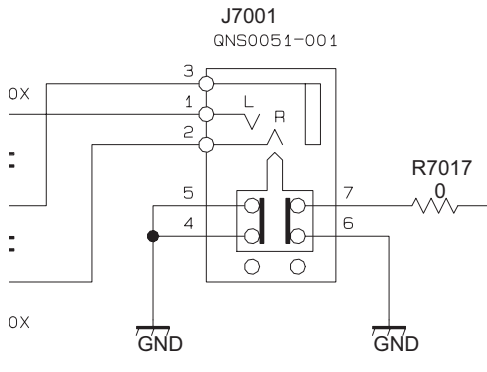


PWB ASS'Y  
-7207A-M2

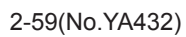


\*DIFFERENCE LIST

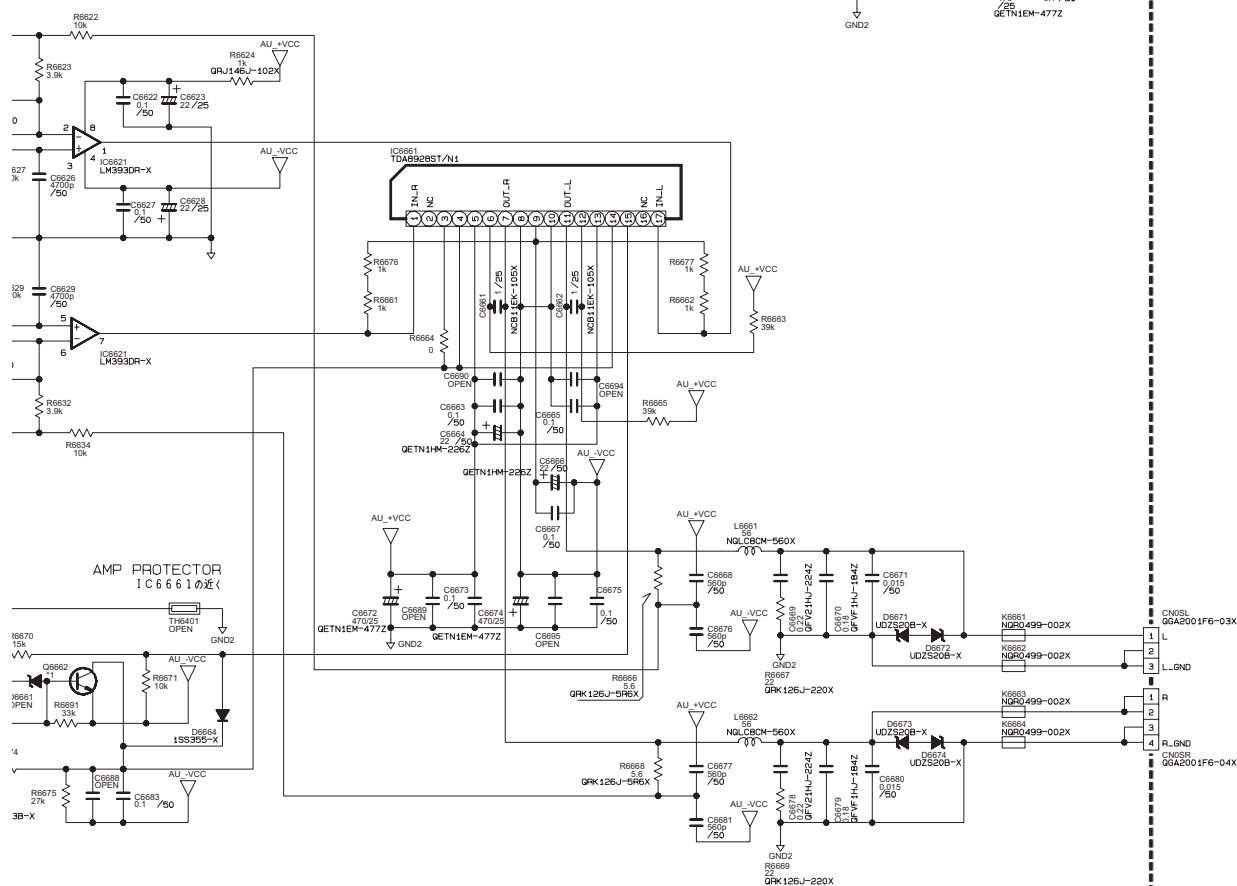
NOTE	IDTV26/32/37 NON-IDTV 26/37/37 ASIA32	US	JPN
ASSY No.	SFL-7206A SFL-7209A	SFL-7207A	SFL-7208A
	OLLC09105 -04/-05	OLLC10557	OLLC10557 -02
R7701	4.7K	5.6K	5.6K
R7702	8.2K	15K	15K
R7703	4.7K	5.6K	5.6K
R7704	8.2K	15K	15K
R7705	OPEN	0	0
R7706	OPEN	0	0
R7707	0	OPEN	OPEN
R7708	0	OPEN	OPEN
R7709	OPEN	0	0
R7710	0	OPEN	OPEN
R7711	0	OPEN	OPEN
R7712	OPEN	0	0









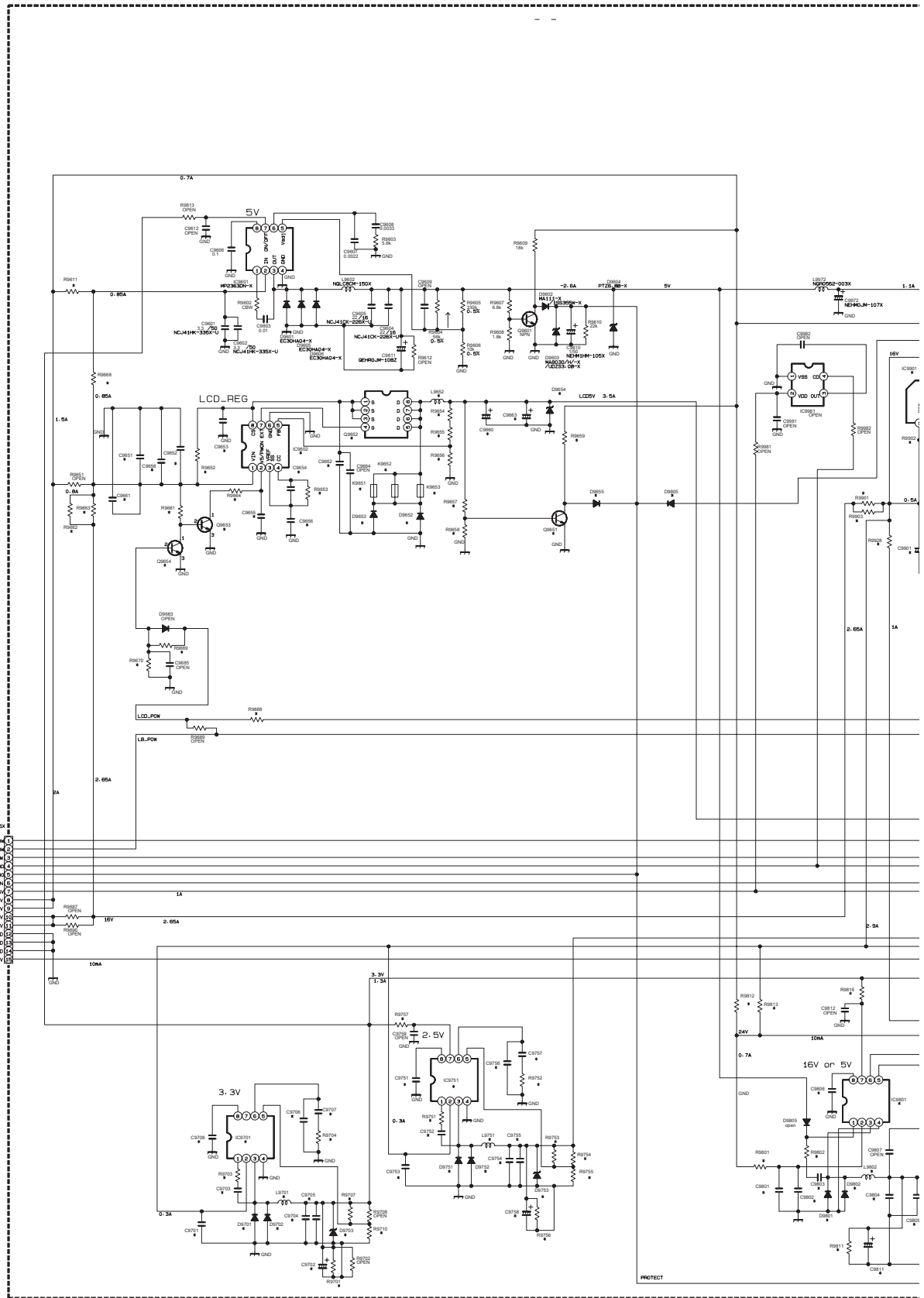
[illegible]

MODEL	JPN		US					
		32K7/0*	37/40K7/0*	32M5*	37X087	40/46F/07	40/46F/0*	
SFL-6302A	SFL-6301A	SFL-6302A	SFL-6301A	SFL-6302A	SFL-6302A	SFL-6302A	SFL-6302A	
LCAR061A-02*	LCAR061A-01*	LCAR061A-02*	LCAR061A-01*	LCAR061A-02*	LCAR061A-02*	LCAR061A-02*	LCAR061A-01*	
OLC010543-02	OLC010543	OLC010543-02	OLC010543	OLC010543-02	OLC010543-02	OLC010543-02	OLC010543-01	
Q6511	*1	OPEN	*1	OPEN	*1	*1	*1	
Q6512	*1	OPEN	*1	OPEN	*1	*1	*1	
Q6513	*2	OPEN	*2	OPEN	*2	*2	*2	
R6511	100	OPEN	100	OPEN	100	100	100	
R6512	100	OPEN	100	OPEN	100	100	100	
R6513	5.6k	OPEN	5.6k	OPEN	5.6k	5.6k	5.6k	
R6514	10k	OPEN	10k	OPEN	10k	10k	10k	
C6511	226.3	10k	226.3	OPEN	226.3	226.3	226.3	
R6502	3.3k	10k	3.3k	10k	3.3k	3.3k	3.3k	
R6505	3.3k	10k	3.3k	10k	3.3k	3.3k	3.3k	



# DC-DC PWB CIRCUIT DIAGRAM SHEET 28

MAIN POWER  
PWB  
(2/2)  
CN00A  
SHEET 24

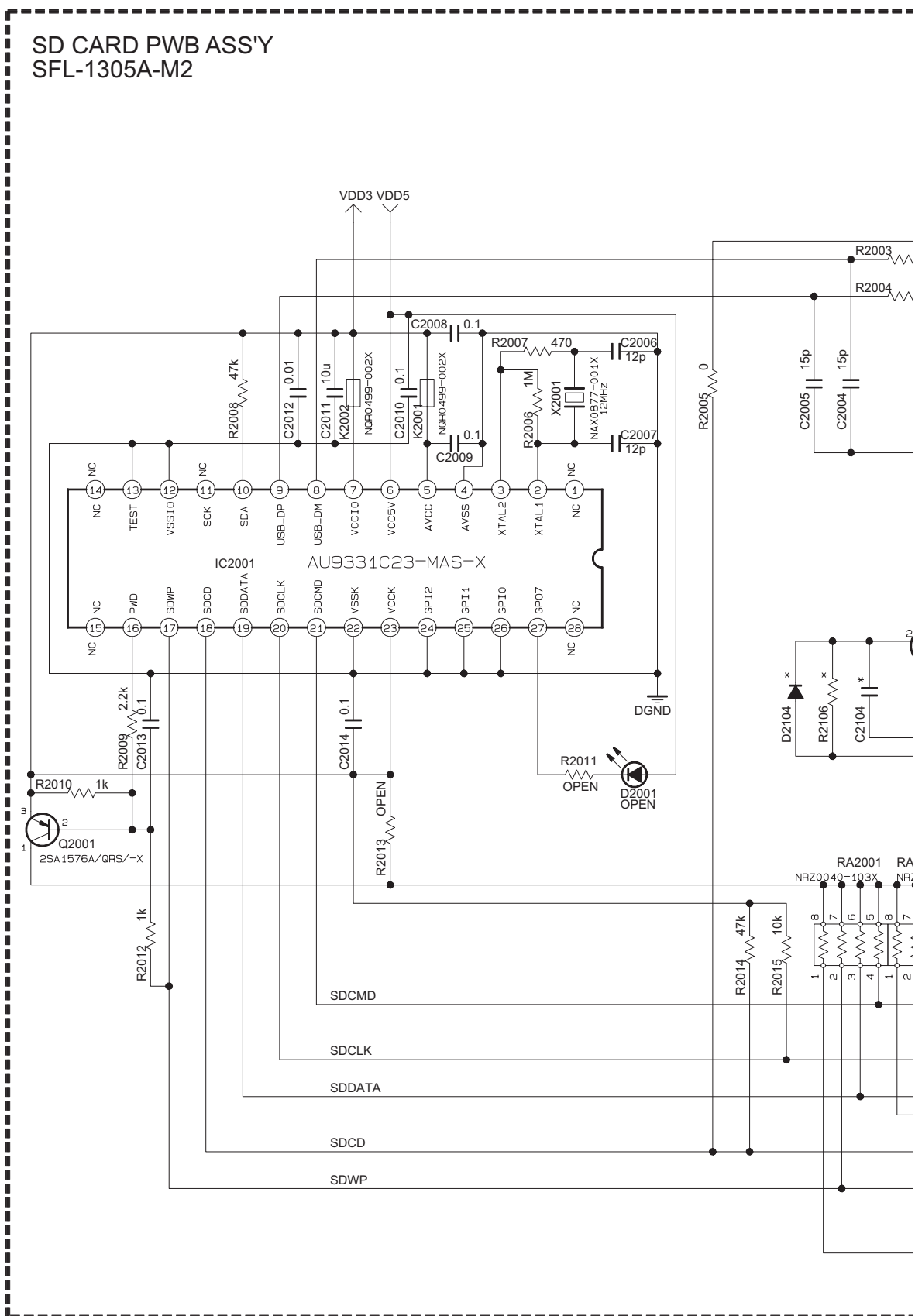




[illegible]

* DIFFERENCE LIST					
	NOTE	JFN4S	US4S	JFN37	
	MODEL	LT-40L80	LT-40B77	LT-40C85	
	CODE	LA000000	LA000000	LA000000	
	NO.	01010070	01010070	01010070	
	SYSTEM	01010070	01010070	01010070	
CONNECTOR	C0007	OPEN	OPEN	OPEN	
	C0008	OPEN	OPEN	OPEN	
	C0009	OPEN	OPEN	OPEN	
	C0010	00000100	00000100	00000100	
	C0011	00000100	00000100	00000100	
5V	00011	OPEN	OPEN	OPEN	
	C0012	AL 1014-X	AL 1014-X	OPEN	
	C0013	00000000	00000000	00000000	
	C0014	00000000	00000000	00000000	
	C0015	00000000	00000000	00000000	
LCD REG	00016	00000000	00000000	00000000	
	C0017	00000000	00000000	00000000	
	C0018	00000000	00000000	00000000	
	C0019	00000000	00000000	00000000	
	C0020	00000000	00000000	00000000	
3.3V	00021	00000000	00000000	00000000	
	C0022	00000000	00000000	00000000	
	C0023	00000000	00000000	00000000	
	C0024	00000000	00000000	00000000	
	C0025	00000000	00000000	00000000	
2.5V	00026	00000000	00000000	00000000	
	C0027	00000000	00000000	00000000	
	C0028	00000000	00000000	00000000	
	C0029	00000000	00000000	00000000	
	C0030	00000000	00000000	00000000	
DEV OF	00031	OPEN	OPEN	OPEN	
	C0032	OPEN	OPEN	OPEN	
	C0033	OPEN	OPEN	OPEN	
	C0034	OPEN	OPEN	OPEN	
	C0035	OPEN	OPEN	OPEN	
9V	00036	OPEN	OPEN	OPEN	
	C0037	OPEN	OPEN	OPEN	
	C0038	OPEN	OPEN	OPEN	
	C0039	OPEN	OPEN	OPEN	
	C0040	OPEN	OPEN	OPEN	
FAN	C0041	0000011-X	OPEN	0000011-X	
	C0042	0000010P-X	OPEN	0000010P-X	
	C0043	0000011-X	OPEN	0000011-X	
	C0044	0000011-X	OPEN	0000011-X	
	C0045	0000011-X	OPEN	0000011-X	
FAN	C0046	0000011-X	OPEN	0000011-X	
	C0047	0000011-X	OPEN	0000011-X	
	C0048	0000011-X	OPEN	0000011-X	
	C0049	0000011-X	OPEN	0000011-X	
	C0050	0000011-X	OPEN	0000011-X	
FAN	C0051	0000011-X	OPEN	0000011-X	
	C0052	0000011-X	OPEN	0000011-X	
	C0053	0000011-X	OPEN	0000011-X	
	C0054	0000011-X	OPEN	0000011-X	
	C0055	0000011-X	OPEN	0000011-X	
FAN	C0056	0000011-X	OPEN	0000011-X	
	C0057	0000011-X	OPEN	0000011-X	
	C0058	0000011-X	OPEN	0000011-X	
	C0059	0000011-X	OPEN	0000011-X	
	C0060	0000011-X	OPEN	0000011-X	
FAN	C0061	0000011-X	OPEN	0000011-X	
	C0062	0000011-X	OPEN	0000011-X	
	C0063	0000011-X	OPEN	0000011-X	
	C0064	0000011-X	OPEN	0000011-X	
	C0065	0000011-X	OPEN	0000011-X	
FAN	C0066	0000011-X	OPEN	0000011-X	
	C0067	0000011-X	OPEN	0000011-X	
	C0068	0000011-X	OPEN	0000011-X	
	C0069	0000011-X	OPEN	0000011-X	
	C0070	0000011-X	OPEN	0000011-X	
FAN	C0071	0000011-X	OPEN	0000011-X	
	C0072	0000011-X	OPEN	0000011-X	
	C0073	0000011-X	OPEN	0000011-X	
	C0074	0000011-X	OPEN	0000011-X	
	C0075	0000011-X	OPEN	0000011-X	
FAN	C0076	0000011-X	OPEN	0000011-X	
	C0077	0000011-X	OPEN	0000011-X	
	C0078	0000011-X	OPEN	0000011-X	
	C0079	0000011-X	OPEN	0000011-X	
	C0080	0000011-X	OPEN	0000011-X	
FAN	C0081	0000011-X	OPEN	0000011-X	
	C0082	0000011-X	OPEN	0000011-X	
	C0083	0000011-X	OPEN	0000011-X	
	C0084	0000011-X	OPEN	0000011-X	
	C0085	0000011-X	OPEN	0000011-X	
FAN	C0086	0000011-X	OPEN	0000011-X	
	C0087	0000011-X	OPEN	0000011-X	
	C0088	0000011-X	OPEN	0000011-X	
	C0089	0000011-X	OPEN	0000011-X	
	C0090	0000011-X	OPEN	0000011-X	
FAN	C0091	0000011-X	OPEN	0000011-X	
	C0092	0000011-X	OPEN	0000011-X	
	C0093	0000011-X	OPEN	0000011-X	
	C0094	0000011-X	OPEN	0000011-X	
	C0095	0000011-X	OPEN	0000011-X	
FAN	C0096	0000011-X	OPEN	0000011-X	
	C0097	0000011-X	OPEN	0000011-X	
	C0098	0000011-X	OPEN	0000011-X	
	C0099	0000011-X	OPEN	0000011-X	
	C0100	0000011-X	OPEN	0000011-X	
FAN	C0101	0000011-X	OPEN	0000011-X	
	C0102	0000011-X	OPEN	0000011-X	
	C0103	0000011-X	OPEN	0000011-X	
	C0104	0000011-X	OPEN	0000011-X	
	C0105	0000011-X	OPEN	0000011-X	
FAN	C0106	0000011-X	OPEN	0000011-X	
	C0107	0000011-X	OPEN	0000011-X	
	C0108	0000011-X	OPEN	0000011-X	
	C0109	0000011-X	OPEN	0000011-X	
	C0110	0000011-X	OPEN	0000011-X	
FAN	C0111	0000011-X	OPEN	0000011-X	
	C0112	0000011-X	OPEN	0000011-X	
	C0113	0000011-X	OPEN	0000011-X	
	C0114	0000011-X	OPEN	0000011-X	
	C0115	0000011-X	OPEN	0000011-X	
FAN	C0116	0000011-X	OPEN	0000011-X	
	C0117	0000011-X	OPEN	0000011-X	
	C0118	0000011-X	OPEN	0000011-X	
	C0119	0000011-X	OPEN	0000011-X	
	C0120	0000011-X	OPEN	0000011-X	
FAN	C0121	0000011-X	OPEN	0000011-X	
	C0122	0000011-X	OPEN	0000011-X	
	C0123	0000011-X	OPEN	0000011-X	
	C0124	0000011-X	OPEN	0000011-X	
	C0125	0000011-X	OPEN	0000011-X	
FAN	C0126	0000011-X	OPEN	0000011-X	
	C0127	0000011-X	OPEN	0000011-X	
	C0128	0000011-X	OPEN	0000011-X	
	C0129	0000011-X	OPEN	0000011-X	
	C0130	0000011-X	OPEN	0000011-X	
FAN	C0131	0000011-X	OPEN	0000011-X	
	C0132	0000011-X	OPEN	0000011-X	
	C0133	0000011-X	OPEN	0000011-X	
	C0134	0000011-X	OPEN	0000011-X	
	C0135	0000011-X	OPEN	0000011-X	
FAN	C0136	0000011-X	OPEN	0000011-X	
	C0137	0000011-X	OPEN	0000011-X	
	C0138	0000011-X	OPEN	0000011-X	
	C0139	0000011-X	OPEN	0000011-X	
	C0140	0000011-X	OPEN	0000011-X	
FAN	C0141	0000011-X	OPEN	0000011-X	
	C0142	0000011-X	OPEN	0000011-X	
	C0143	0000011-X	OPEN	0000011-X	
	C0144	0000011-X	OPEN	0000011-X	
	C0145	0000011-X	OPEN	0000011-X	
FAN	C0146	0000011-X	OPEN	0000011-X	
	C0147	0000011-X	OPEN	0000011-X	
	C0148	0000011-X	OPEN	0000011-X	
	C0149	0000011-X	OPEN	0000011-X	
	C0150	0000011-X	OPEN	0000011-X	
FAN	C0151	0000011-X	OPEN	0000011-X	
	C0152	0000011-X	OPEN	0000011-X	
	C0153	0000011-X	OPEN	0000011-X	
	C0154	0000011-X	OPEN	0000011-X	
	C0155	0000011-X	OPEN	0000011-X	
FAN	C0156	0000011-X	OPEN	0000011-X	
	C0157	0000011-X	OPEN	0000011-X	
	C0158	0000011-X	OPEN	0000011-X	
	C0159	0000011-X	OPEN	0000011-X	
	C0160	0000011-X	OPEN	0000011-X	
FAN	C0161	0000011-X	OPEN	0000011-X	
	C0162	0000011-X	OPEN	0000011-X	
	C0163	0000011-X	OPEN	0000011-X	
	C0164	0000011-X	OPEN	0000011-X	
	C0165	0000011-X	OPEN	0000011-X	
FAN	C0166	0000011-X	OPEN	0000011-X	
	C0167	0000011-X	OPEN	0000011-X	
	C0168	0000011-X	OPEN	0000011-X	
	C0169	0000011-X	OPEN	0000011-X	
	C0170	0000011-X	OPEN	0000011-X	
FAN	C0171	0000011-X	OPEN	0000011-X	
	C0172	0000011-X	OPEN	0000011-X	
	C0173	0000011-X	OPEN	0000011-X	
	C0174	0000011-X	OPEN	0000011-X	
	C0175	0000011-X	OPEN	0000011-X	
FAN	C0176	0000011-X	OPEN	0000011-X	
	C0177	0000011-X	OPEN	0000011-X	
	C0178	0000011-X	OPEN	0000011-X	
	C0179	0000011-X	OPEN	0000011-X	
	C0180	0000011-X	OPEN	0000011-X	
FAN	C0181	0000011-X	OPEN	0000011-X	
	C0182	0000011-X	OPEN	0000011-X	
	C0183	0000011-X	OPEN	0000011-X	
	C0184	0000011-X	OPEN	0000011-X	
	C0185	0000011-X	OPEN	0000011-X	
FAN	C0186	0000011-X	OPEN	0000011-X	
	C0187	0000011-X	OPEN	0000011-X	
	C0188	0000011-X	OPEN	0000011-X	
	C0189	0000011-X	OPEN	0000011-X	
	C0190	0000011-X	OPEN	0000011-X	
FAN	C0191	0000011-X	OPEN	0000011-X	
	C0192	0000011-X	OPEN	0000011-X	
	C0193	0000011-X	OPEN	0000011-X	
	C0194	0000011-X	OPEN	0000011-X	
	C0195	0000011-X	OPEN	0000011-X	
FAN	C0196	0000011-X	OPEN	0000011-X	
	C0197	0000011-X	OPEN	0000011-X	
	C0198	0000011-X	OPEN	0000011-X	
	C0199	0000011-X	OPEN	0000011-X	
	C0200	0000011-X	OPEN	0000011-X	
FAN	C0201	0000011-X	OPEN	0000011-X	
	C0202	0000011-X	OPEN	0000011-X	
	C0203	0000011-X	OPEN	0000011-X	
	C0204	0000011-X	OPEN	0000011-X	
	C0205	0000011-X	OPEN	0000011-X	
FAN	C0206	0000011-X	OPEN	0000011-X	
	C0207	0000011-X	OPEN	0000011-X	
	C0208	0000011-X	OPEN	0000011-X	
	C0209	0000011-X	OPEN	0000011-X	
	C0210	0000011-X	OPEN	0000011-X	
FAN	C0211	0000011-X	OPEN	0000011-X	
	C0212	0000011-X	OPEN	0000011-X	
	C0213	0000011-X	OPEN	0000011-X	
	C0214	0000011-X	OPEN	0000011-X	
	C0215	0000011-X	OPEN	0000011-X	
FAN	C0216	0000011-X	OPEN	0000011-X	
	C0217	0000011-X	OPEN	0000011-X	
	C0218	0000011-X	OPEN	0000011-X	
	C0219	0000011-X	OPEN	0000011-X	
	C0220	0000011-X	OPEN	0000011-X	
FAN	C0221	0000011-X	OPEN	0000011-X	
	C0222	0000011-X	OPEN	0000011-X	
	C0223	0000011-X	OPEN	0000011-X	
	C0224	0000011-X	OPEN	0000011-X	
	C0225	0000011-X	OPEN	0000011-X	
FAN	C0226	0000011-X	OPEN	0000011-X	
	C0227	0000011-X	OPEN	0000011-X	
	C0228	0000011-X	OPEN	0000011-X	
	C0229	0000011-X	OPEN	0000011-X	
	C0230	0000011-X	OPEN	0000011-X	
FAN	C0231	0000011-X	OPEN	0000011-X	
	C0232	0000011-X	OPEN	0000011-X	
	C0233	0000011-X	OPEN	0000011-X	
	C0234	0000011-X	OPEN	0000011-X	
	C0235	0000011-X	OPEN	0000011-X	
FAN	C0236	0000011-X	OPEN	0000011-X	
	C0237	0000011-X	OPEN	0000011-X	
	C0238	0000011-X	OPEN	0000011-X	
	C0239	0000011-X	OPEN	0000011-X	
	C0240	0000011-X	OPEN	0000011-X	
FAN	C0241	0000011-X	OPEN	0000011-X	
	C0242	0000011-X	OPEN	0000011-X	
	C0243	0000011-X	OPEN	0000011-X	
	C02				







\*DIFFERENCE LIST





SUB POWER PWB ASS'Y  
SFL-9712A-M2





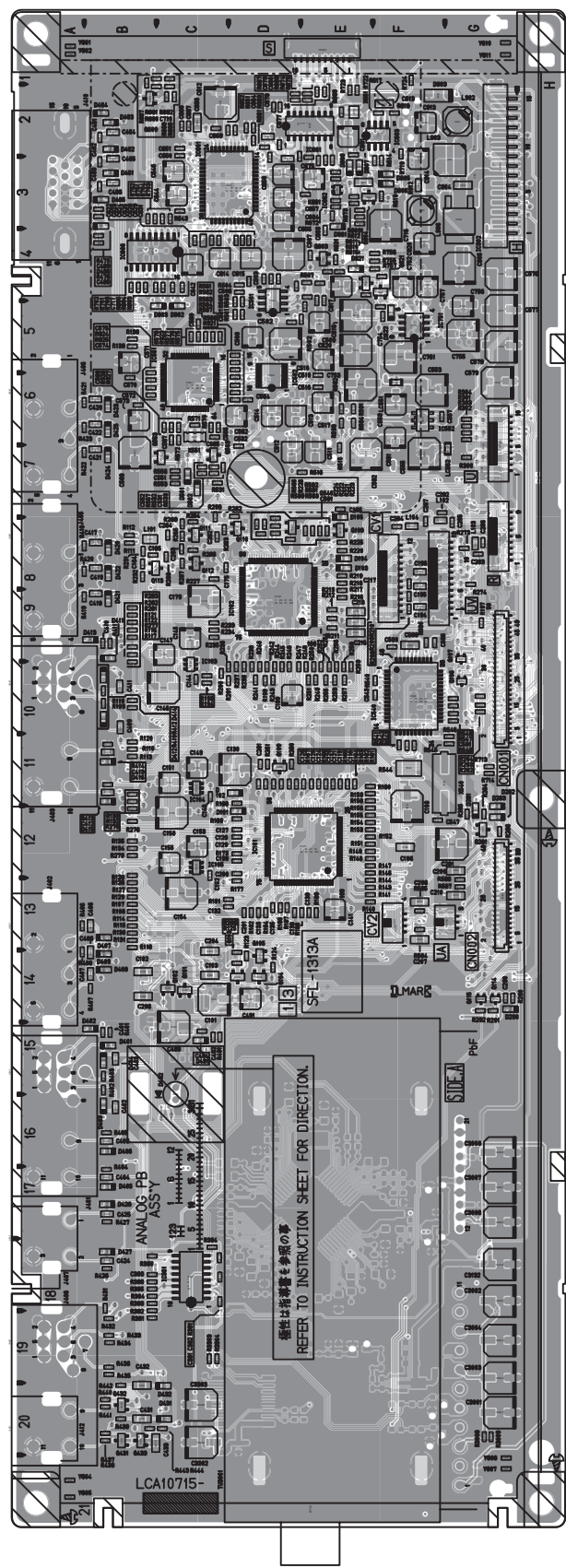


## ANALOG PWB PATTERN [SOLDER SIDE]

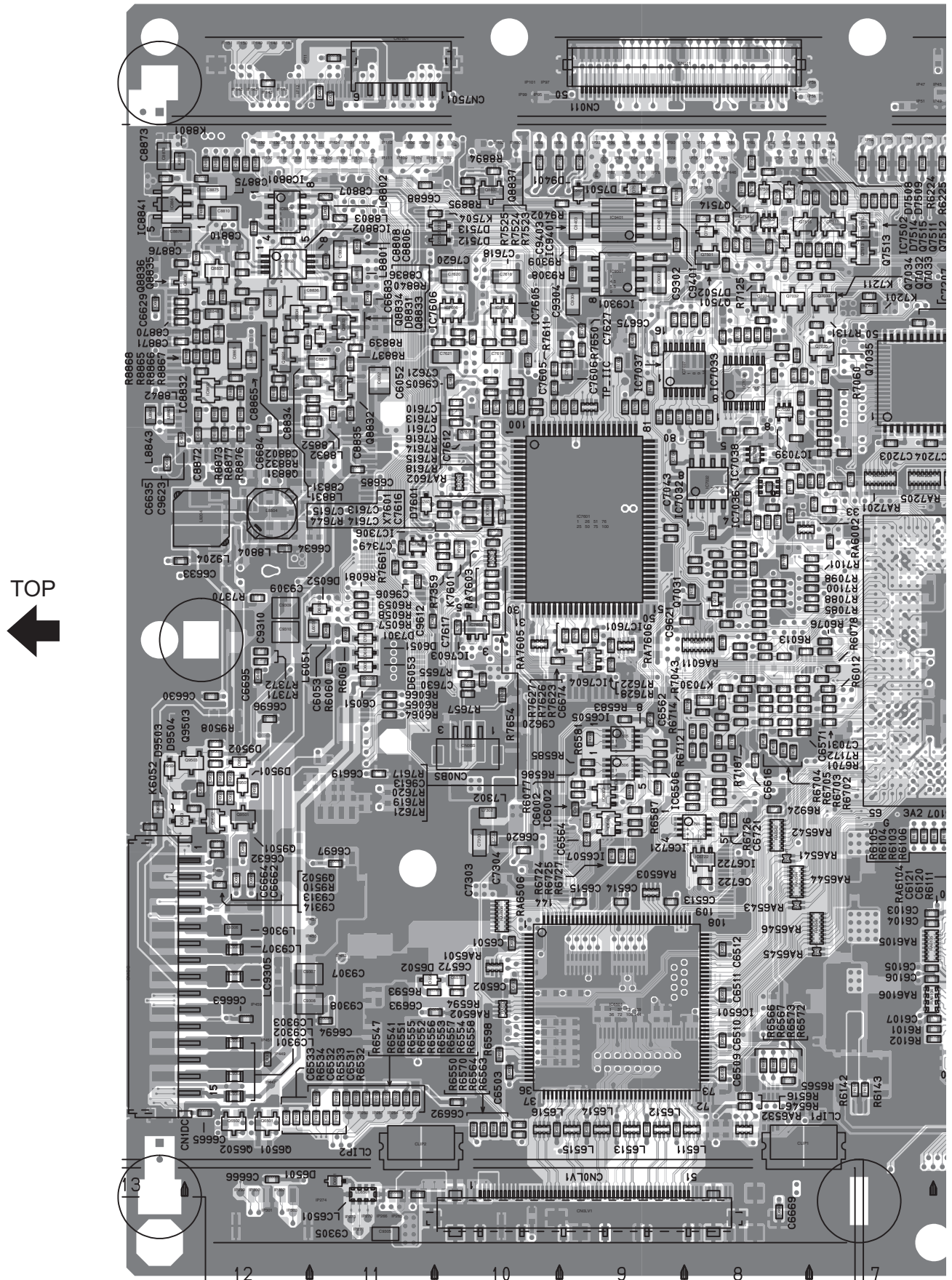




ANALOG PWB PATTERN [PARTS SIDE]



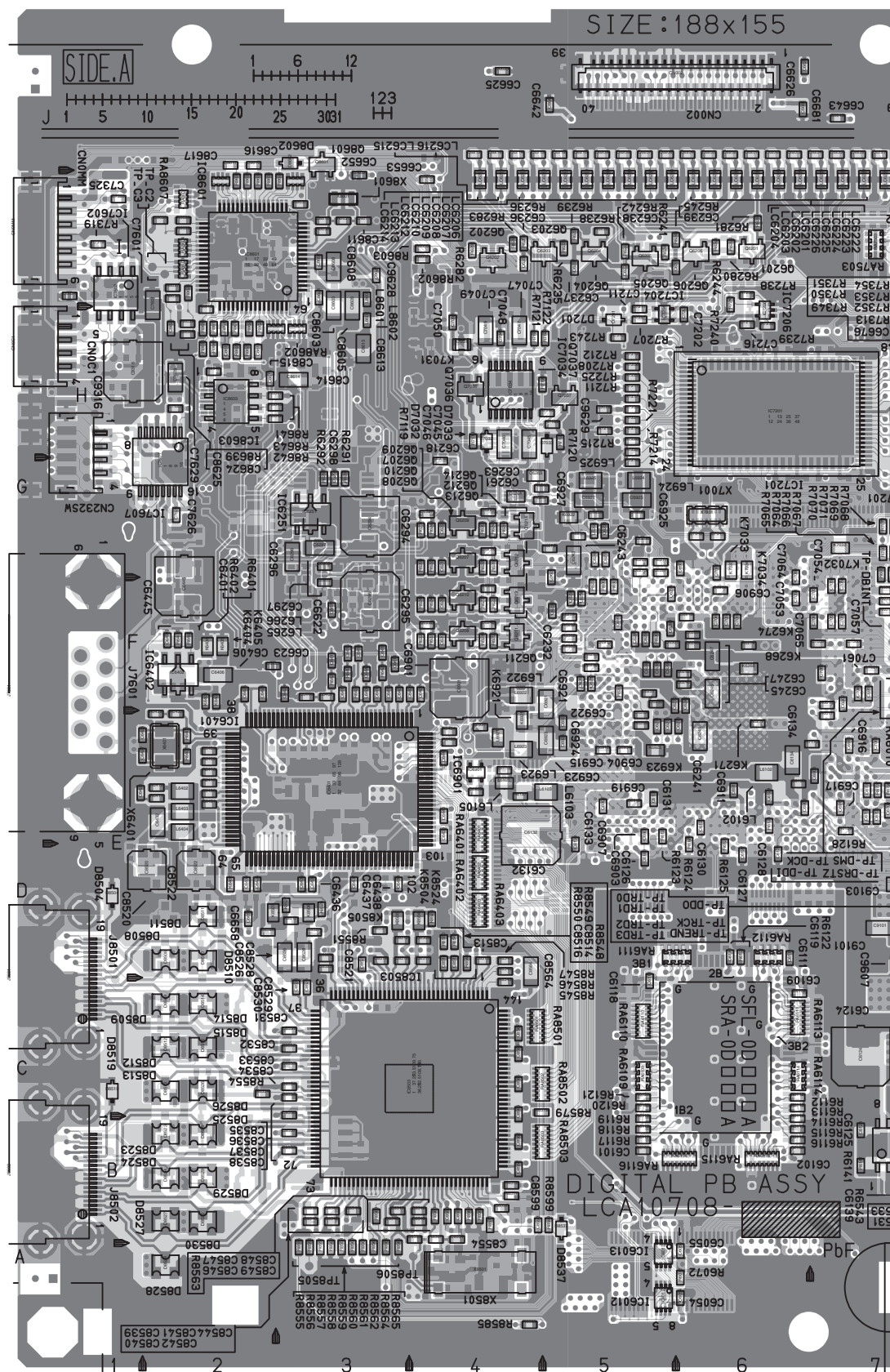










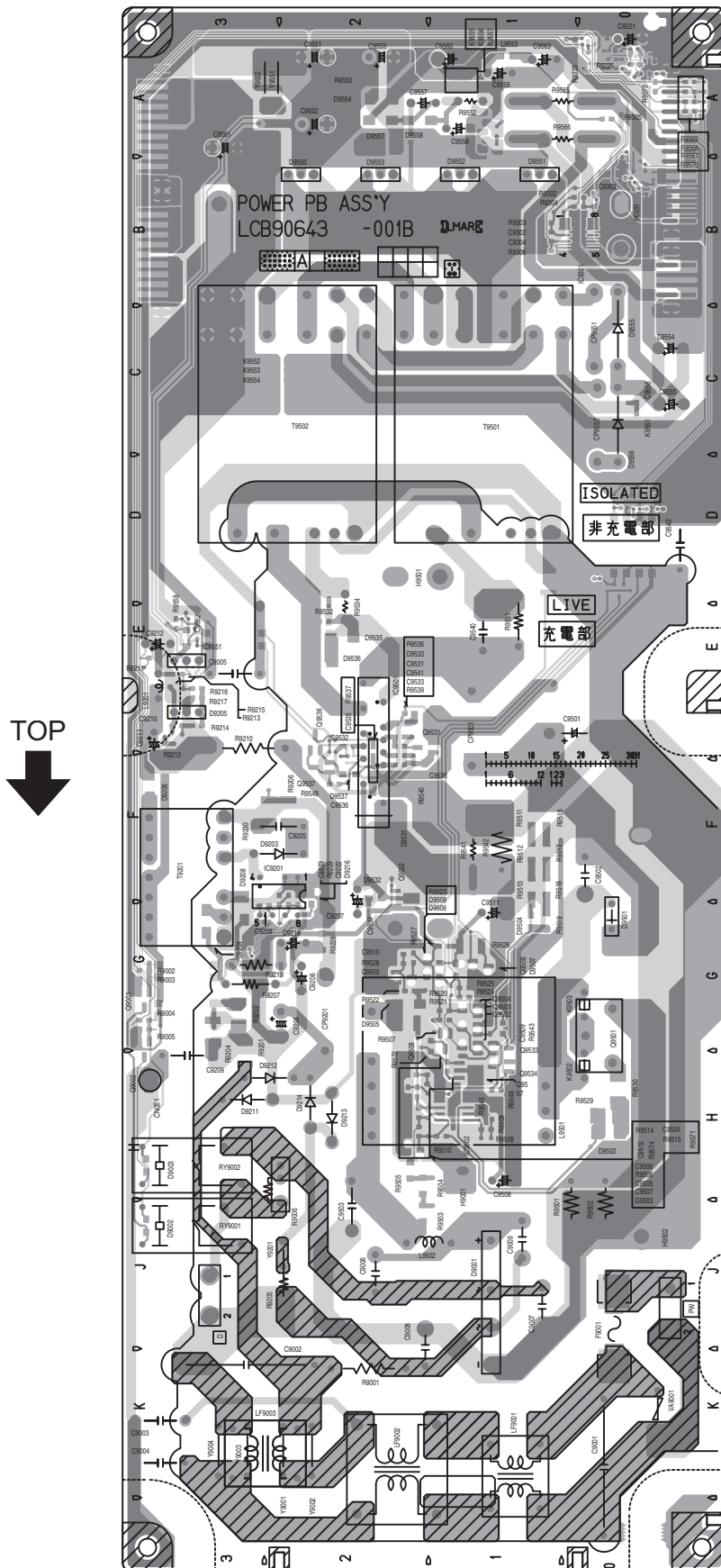






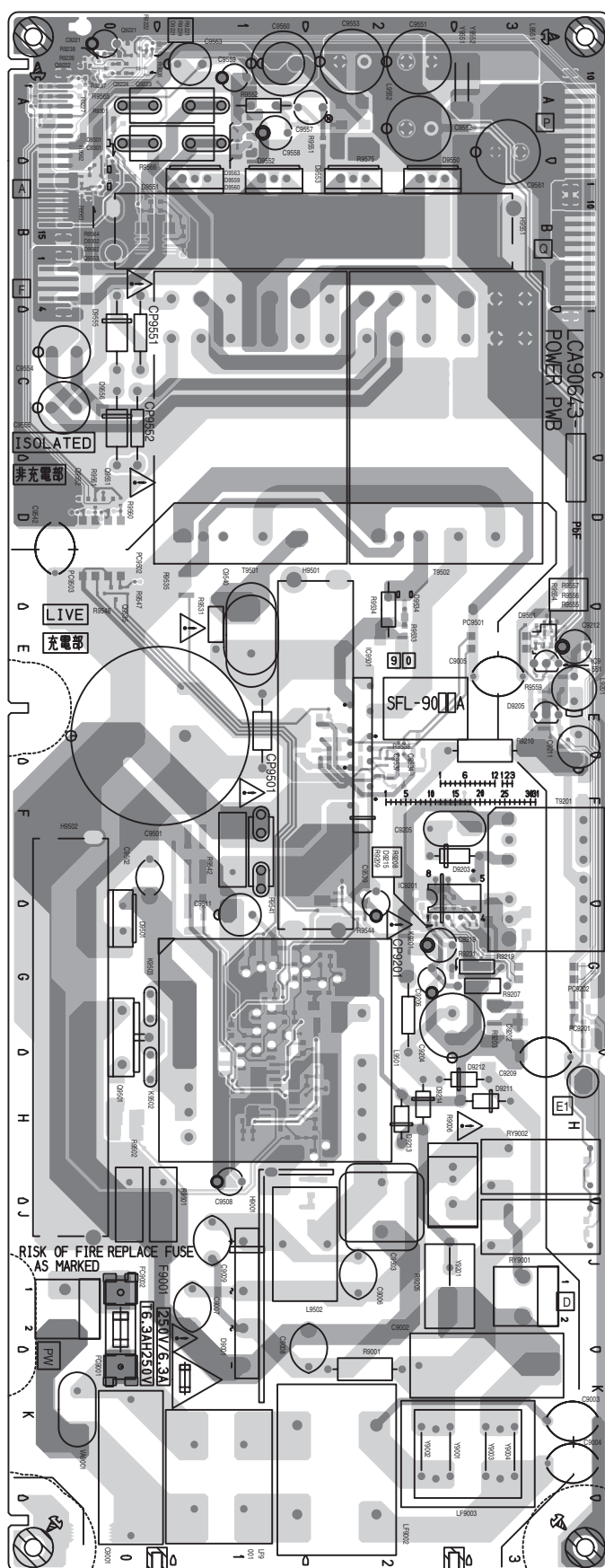


MAIN POWER PWB PATTERN [SOLDER SIDE]



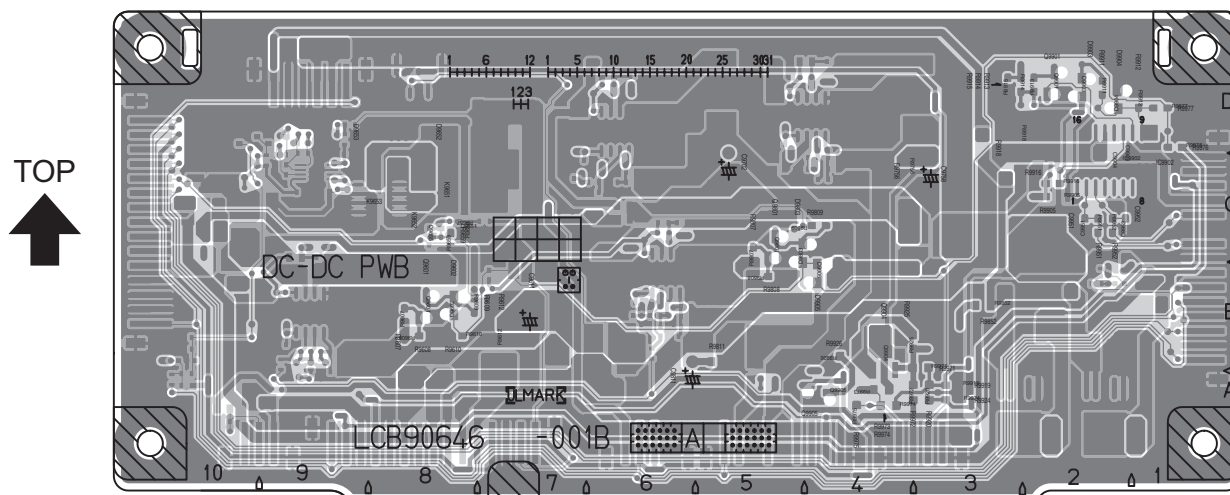


TOP

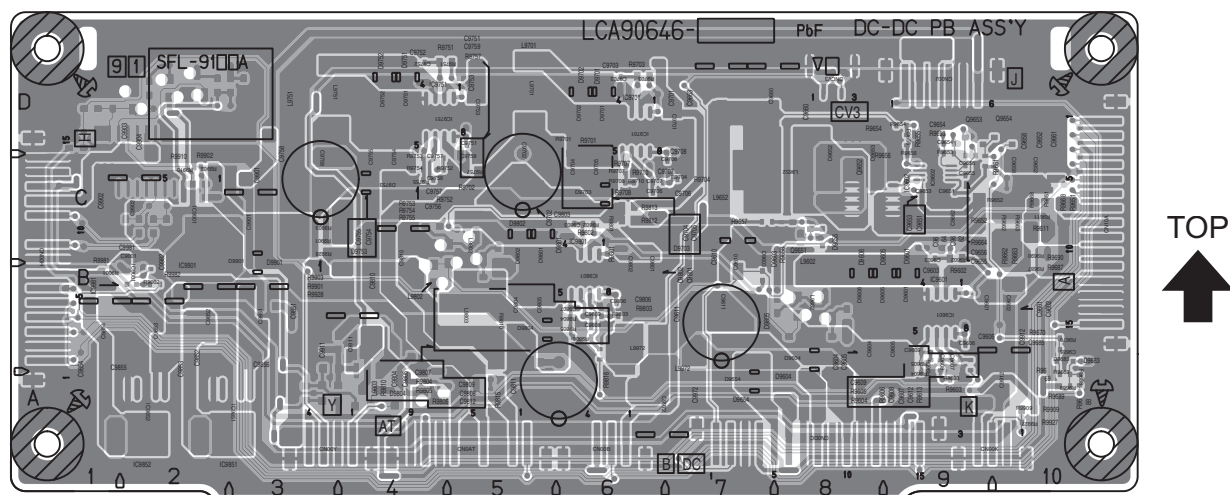




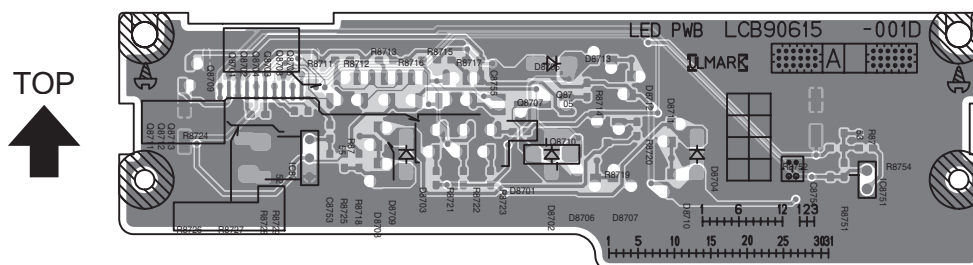
DC-DC PWB PATTERN [SOLDER SIDE]



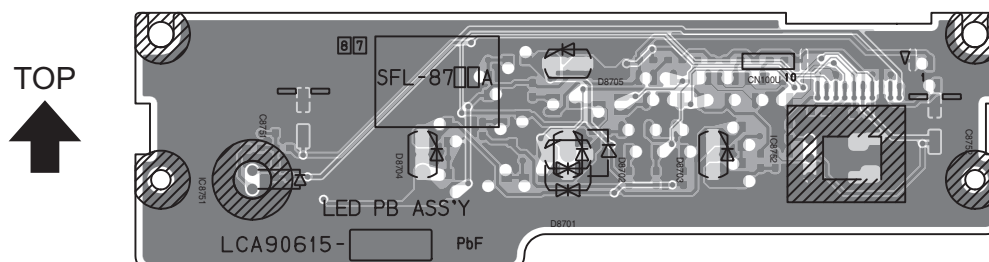
DC-DC PWB PATTERN [PARTS SIDE]



LED PWB PATTERN [SOLDER SIDE]



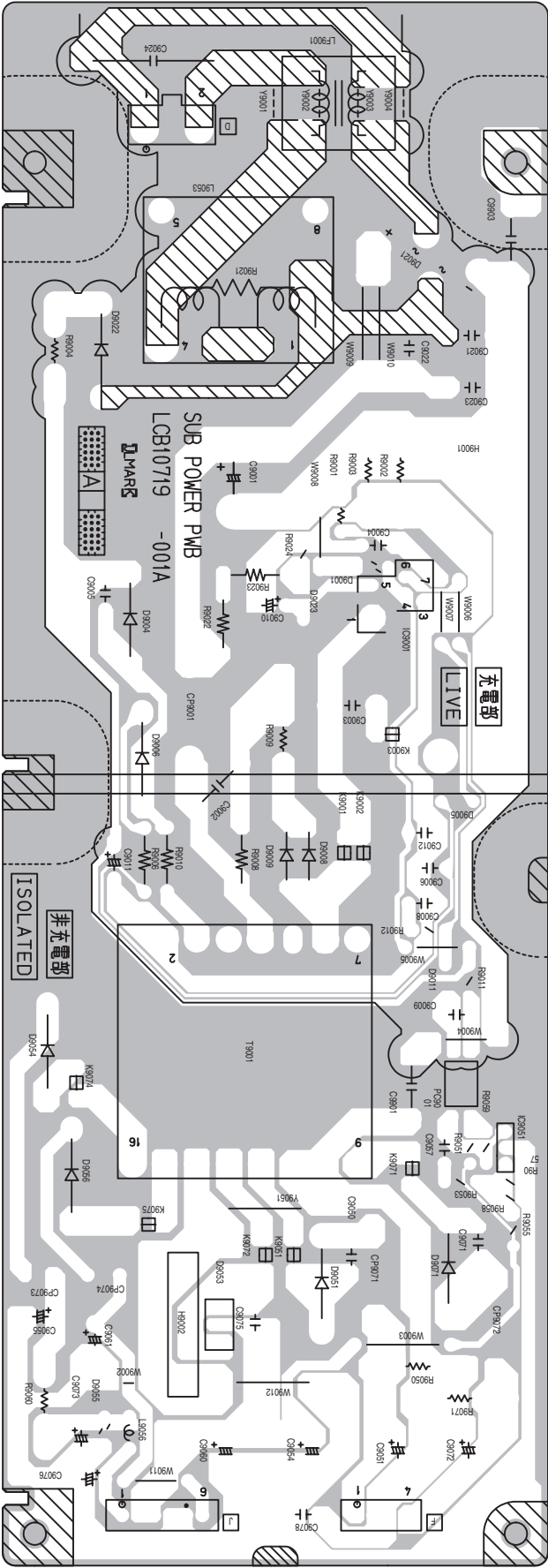
LED PWB PATTERN [PARTS SIDE]





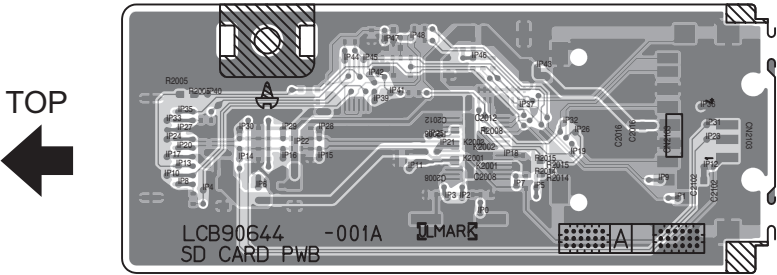




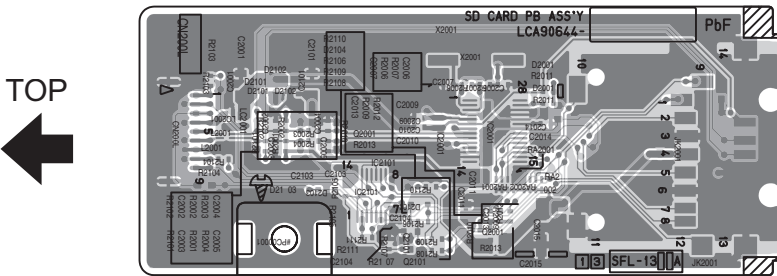




SD CARD PWB PATTERN [SOLDER SIDE]



SD CARD PWB PATTERN [PARTS SIDE]





# VOLTAGE CHARTS

<ANALOG PWB>

[P.2-7 - P.2-8]

MODE PIN NO.	DC (V)
IC101	
1	4.4
2	4.4
3	0
4	4.4
5	4.4
6	0
7	4.5
8	4.4
9	0
10	4.4
11	4.4
12	0
13	4.4
14	4.4
15	4.4
16	4.4
17	4.5
18	8.9
19	4.5
20	4.4
21	0
22	4.4
23	4.4
24	0
25	4.4
26	4.4
27	0
28	4.4
29	4.4
30	8.9
31	4.5
32	4.4
33	4.4
34	4.5
35	4.5
36	4.5
37	1.4
38	1.9
39	1.4
40	1.9
41	0
42	2.1
43	1.6
44	5.2
45	1.9
46	0
47	2.1
48	5.2
49	1.9
50	1.6
51	4.9
52	5.0
53	5.2
54	5.2
55	2.5
56	5.2
57	2.5
58	2.1
59	2.1
60	2.5
61	5.2
62	2.5
63	0.3
64	0
65	0
66	0
67	5.1
68	2.5
69	0.3
70	2.1
71	5.1
72	2.5
73	5.1
74	2.5
75	1.3
76	0.3
77	2.1
78	1.4
79	2.6
80	5.2
81	2.3
82	0
83	2.8
84	0
85	2.5
86	5.1
87	2.5
88	0.2
89	2.2
90	0
91	2.5
92	2.8
93	2.5
94	0.1
95	0.1
96	5.1

MODE PIN NO.	DC (V)
97	2.5
98	5.1
99	2.5
100	2.5
IC102	
1	0
2	2.4
3	2.5
4	2.4
5	2.5
6	2.4
7	2.5
8	2.4
9	0
10	2.4
11	2.2
12	2.4
13	0
14	0.3
15	0.3
16	0
17	2.4
18	0
19	2.4
20	0
21	2.1
22	2.1
23	8.9
24	2.2
25	4.9
26	0
27	3.4
28	3.3
29	0
30	0
31	5.2
32	1.4
33	0
34	0
35	0
36	0
37	3.5
38	3.4
39	0.2
40	0
41	0
42	2.2
43	1.0
44	0
45	1.0
46	2.3
47	1.9
48	1.9
49	3.0
50	5.2
51	5.1
52	1.9
53	2.0
54	3.0
55	2.6
56	2.1
57	5.2
58	0
59	0
60	2.2
61	0
62	0
63	5.2
64	2.5
65	2.5
66	2.4
67	2.5
68	2.5
69	2.4
70	2.4
71	5.1
72	2.4
73	5.1
74	2.4
75	0
76	0.3
77	0
78	2.4
79	0
80	2.1
81	0
82	0
83	0
84	0
85	2.4
86	0
87	0
88	0
89	0
90	0
91	0
92	0

MODE PIN NO.	DC (V)
93	0.2
94	2.4
95	0
96	2.4
97	0
98	0
99	0
100	5.1
IC103	
1	2.1
2	2.1
3	8.9
4	2.2
5	0
6	8.9
IC104	
1	2.1
2	2.0
3	8.9
4	2.2
5	0
6	0
IC105	
1	2.1
2	2.1
3	8.9
4	2.2
5	0
6	0
IC106	
1	4.4
2	0
3	4.4
4	4.4
5	7.3
6	0
7	0
8	4.4
9	0.1
10	4.4
11	4.4
12	0
13	0
14	0
15	0
16	5.2
IC3101	
1	4.1
2	4.1
3	4.1
4	0
5	4.8
6	4.9
7	0
8	4.1
9	4.1
10	4.1
11	4.0
12	5.3
13	4.1
14	1.3
15	0
16	0
17	0
18	4.0
19	8.9
20	0
21	4.1
22	4.1
23	0
24	0
25	4.1
26	3.9
27	4.1
28	1.7
29	0
30	0
31	1.7
32	4.0
33	4.1
34	0
35	4.1
36	4.1
37	0
38	0.1
39	4.1
40	4.1
41	0.7
42	0
43	0
44	0
45	4.1
46	4.1
47	4.1
48	4.1
49	4.1
50	3.3
51	2.5
52	0
53	0
54	1.9
55	0
56	1.5
57	2.0
58	2.5
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
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74	0
75	0
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77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	0
92	0

MODE PIN NO.	DC (V)
Q431	
E	0
C	0
B	0
Q432	
E	0
C	0
B	0
Q433	
E	0
C	0
B	0

MODE PIN NO.	DC (V)
IC381	
1	0
2	4.8
3	4.9
4	0
5	0
6	0
7	5.2
8	0
9	0
10	5.2
11	0
12	0
13	5.2
14	0
15	0
16	5.2
IC3101	
1	4.1
2	4.1
3	4.1
4	0
5	4.8
6	4.9
7	0
8	4.1
9	4.1
10	4.1
11	4.0
12	5.3
13	4.1
14	1.3
15	0
16	0
17	0
18	4.0
19	8.9
20	0
21	4.1
22	4.1
23	0
24	0
25	4.1
26	3.9
27	4.1
28	1.7
29	0
30	0
31	1.7
32	4.0
33	4.1
34	0
35	4.1
36	4.1
37	0
38	0.1
39	4.1
40	4.1
41	0.7
42	0
43	0
44	0
45	4.1
46	4.1
47	4.1
48	4.1
49	4.1
50	3.3
51	2.5
52	0
53	0
54	1.9
55	0
56	1.5
57	2.0
58	2.5
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	0
92	0

MODE PIN NO.	DC (V)
IC381	
1	0
2	4.8
3	4.9
4	0
5	0
6	0
7	5.2
8	0
9	0
10	5.2
11	0
12	0
13	5.2
14	0
15	0
16	5.2
IC3101	
1	4.1
2	4.1
3	4.1
4	0
5	4.8
6	4.9
7	0
8	4.1
9	4.1
10	4.1
11	4.0
12	5.3
13	4.1
14	1.3
15	0
16	0
17	0
18	4.0
19	8.9
20	0
21	4.1
22	4.1
23	0
24	0
25	4.1
26	3.9
27	4.1
28	1.7
29	0
30	0
31	1.7
32	4.0
33	4.1
34	0
35	4.1
36	4.1
37	0
38	0.1
39	4.1
40	4.1
41	0.7
42	0
43	0
44	0
45	4.1
46	4.1
47	4.1
48	4.1
49	4.1
50	3.3
51	2.5
52	0
53	0
54	1.9
55	0
56	1.5
57	2.0
58	2.5
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	0
83	0
84	0
85	0
86	0
87	0
88	0
89	0
90	0
91	0
92	0

[P.2-11 - P.2-12]	
MODE PIN NO.	DC (V)
IC381	

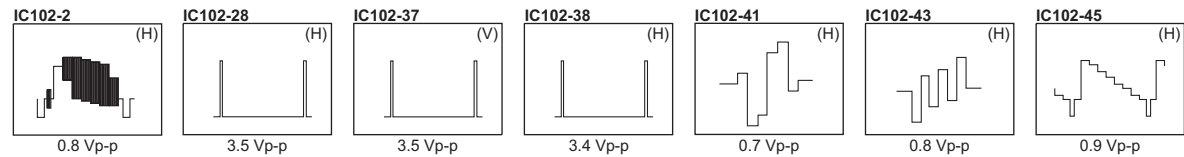
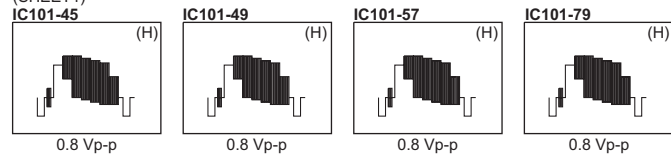


(No.YA432)2-80

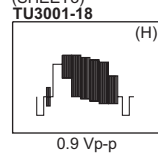


# WAVEFORMS

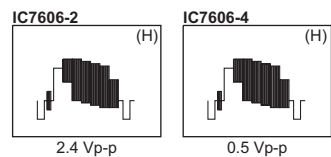
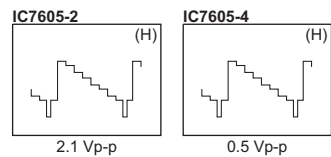
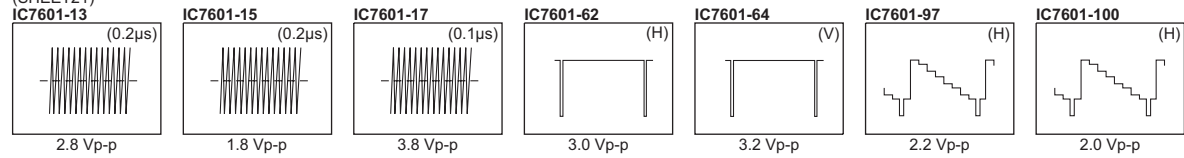
ANALOG PWB (1/6)  
(SHEET1)



ANALOG PWB (3/6)  
(SHEET3)



DIGITAL PWB (15/16)  
(SHEET21)







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